

DRILL STEM TEST REPORT

Prepared For: **Crawford Oil CO**

PO Box 1366
El Dorado KS 67042

ATTN: Bob Peterson

3214S 21W Trego KS

Schuster #1-32

Start Date: 2007.02.08 @ 15:50:06

End Date: 2007.02.08 @ 22:19:36

Job Ticket #: 27494 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

Crawford Oil CO

PO Box 1366
El Dorado KS 67042

ATTN: Bob Peterson

Schuster #1-32

3214S 21W Trego KS

Job Ticket: 27494

DST#: 1

Test Start: 2007.02.08 @ 15:50:06

GENERAL INFORMATION:

Formation: **Cherokee "B"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:42:06

Time Test Ended: 22:19:36

Test Type: Conventional Bottom Hole

Tester: Tyson Flax

Unit No: 21

Interval: **3898.00 ft (KB) To 3962.00 ft (KB) (TVD)**

Total Depth: 3962.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2116.00 ft (KB)

2111.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8320 Inside

Press@RunDepth: 259.91 psig @ 3904.00 ft (KB)

Start Date: 2007.02.08

End Date:

2007.02.08

Start Time: 15:50:08

End Time:

22:19:36

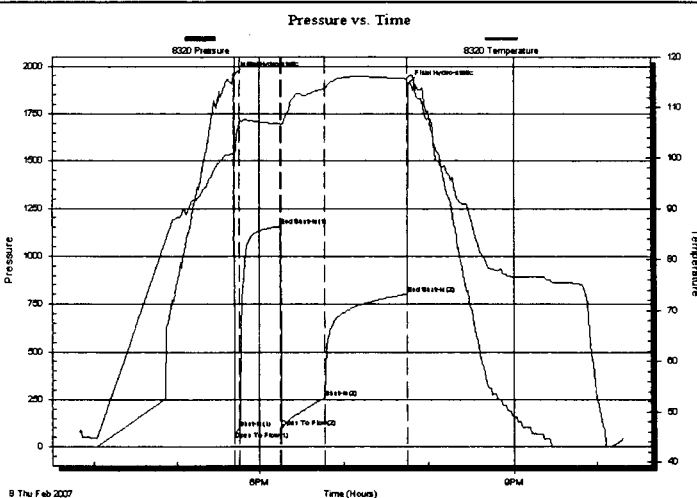
Capacity: 7000.00 psig

Last Calib.: 2007.02.08

Time On Btm: 2007.02.08 @ 17:41:46

Time Off Btm: 2007.02.08 @ 19:46:06

TEST COMMENT: IFP BOB in 3 min
ISI Weak surface blow throughout
FFP BOB in 2.5 min
FSI Weak blow back built to 5" in 10 min blew throughout



PRESSURE SUMMARY

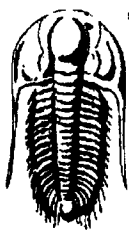
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1952.19	100.86	Initial Hydro-static
1	38.73	100.53	Open To Flow (1)
5	98.80	107.19	Shut-In (1)
34	1154.27	106.84	End Shut-In (1)
34	99.53	106.74	Open To Flow (2)
66	259.91	113.70	Shut-In (2)
124	803.34	115.66	End Shut-In (2)
125	1904.82	115.92	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	GMCO 10% 70%O 20%M	0.30
240.00	GCO 10%G 90%O	2.85
240.00	GMCO 30%G 40%O 30%M	3.40
90.00	GSOCM 10%G 5%O 85%M	1.28

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Crawford Oil CO

Schuster #1-32

PO Box 1366
El Dorado KS 67042

3214S 21W Trego KS

Job Ticket: 27494

DST#: 1

ATTN: Bob Peterson

Test Start: 2007.02.08 @ 15:50:06

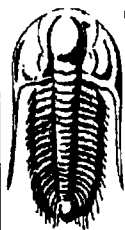
Tool Information

Drill Pipe:	Length: 3780.00 ft	Diameter: 3.82 inches	Volume: 53.58 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: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose:	50000.00 lb
		Total Volume:	54.17 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial	42000.00 lb
Depth to Top Packer:	3898.00 ft			Final	46000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	64.00 ft				
Tool Length:	92.00 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			3871.00	
Shut In Tool	5.00			3876.00	
Hydraulic tool	5.00			3881.00	
Jars	5.00			3886.00	
Safety Joint	2.00			3888.00	
Packer	5.00			3893.00	28.00 Bottom Of Top Packer
Packer	5.00			3898.00	
Stubb	1.00			3899.00	
Perforations	5.00			3904.00	
Recorder	0.00	8320	Inside	3904.00	
Blank Spacing	31.00			3935.00	
Perforations	24.00			3959.00	
Recorder	0.00	3351	Inside	3959.00	
Bullnose	3.00			3962.00	64.00 Bottom Packers & Anchor

Total Tool Length: 92.00



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Crawford Oil CO

Schuster #1-32

PO Box 1366
El Dorado KS 67042

3214S 21W Trego KS

Job Ticket: 27494

DST#: 1

ATTN: Bob Peterson

Test Start: 2007.02.08 @ 15:50:06

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

43 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	GMCO 10% 70%O 20%M	0.295
240.00	GCO 10%G 90%O	2.847
240.00	GMCO 30%G 40%O 30%M	3.402
90.00	GSOCM 10%G 5%O 85%M	1.276

Total Length: 630.00 ft

Total Volume: 7.820 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

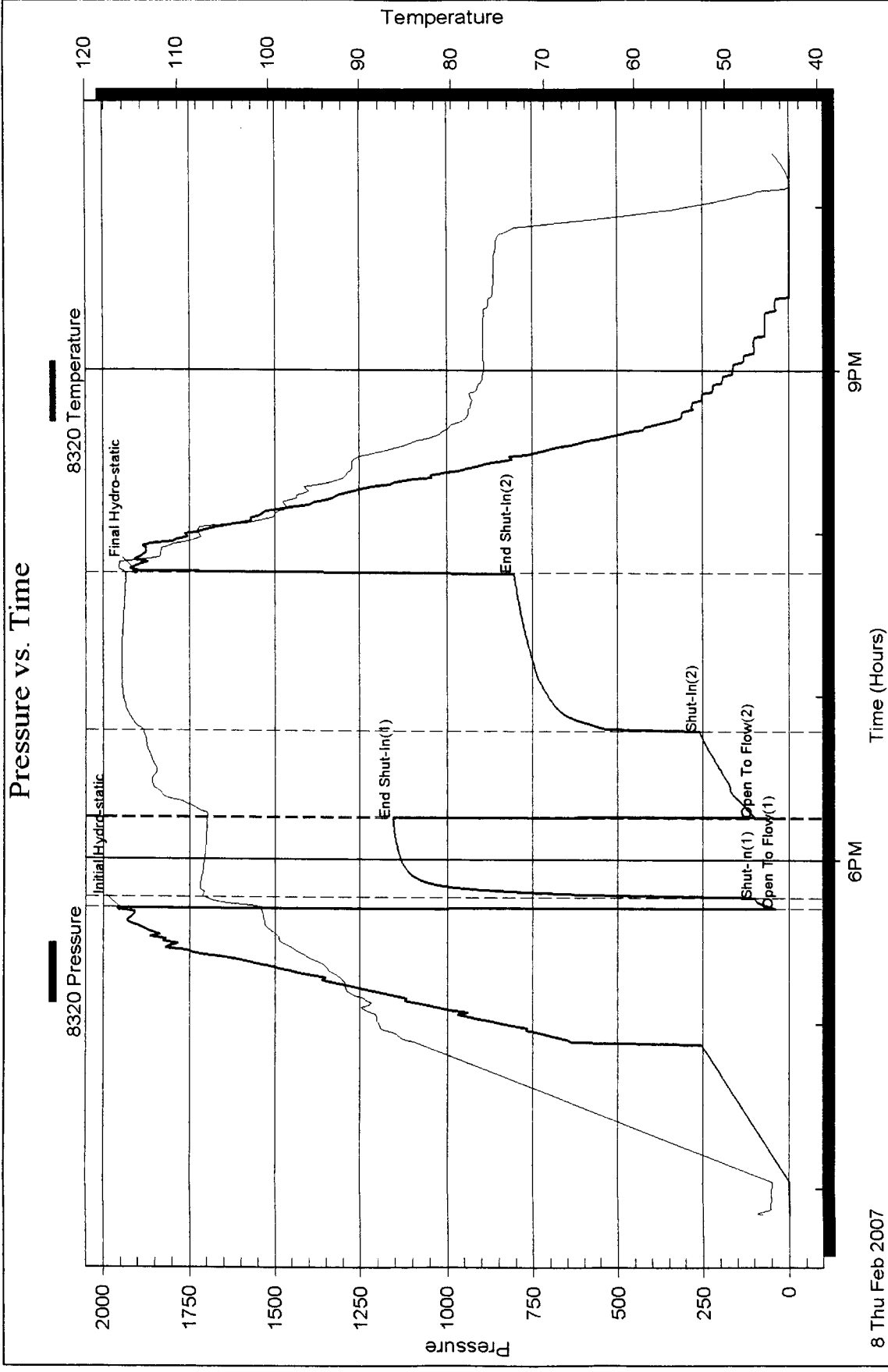
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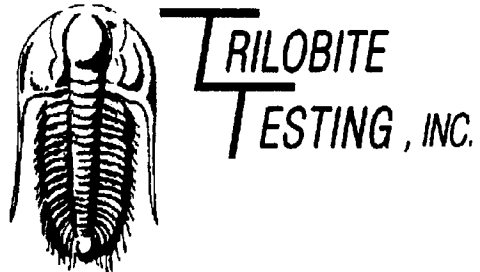
Inside

Crawford Oil CO

3214S 21W Trego KS

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **Crawford Oil CO**

PO Box 1366
El Dorado KS 67042

ATTN: Bob Peterson

3214S 21W Trego KS

Schuster #1-32

Start Date: 2007.02.08 @ 23:50:45

End Date: 2007.02.09 @ 06:01:15

Job Ticket #: 27495 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

Crawford Oil CO

PO Box 1366
El Dorado KS 67042

ATTN: Bob Peterson

Schuster #1-32

3214S 21W Trego KS

Job Ticket: 27495

DST#: 2

Test Start: 2007.02.08 @ 23:50:45

GENERAL INFORMATION:

Formation: **Cherokee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 01:29:05

Time Test Ended: 06:01:15

Test Type: Conventional Bottom Hole

Tester: Tyson Flax

Unit No: 21

Interval: **3949.00 ft (KB) To 3962.00 ft (KB) (TVD)**

Total Depth: 3962.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2116.00 ft (KB)

2111.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8320

Inside

Press@RunDepth: 217.23 psig @ 3950.00 ft (KB)

Start Date: 2007.02.08

End Date:

2007.02.09

Start Time: 23:50:47

End Time:

06:01:15

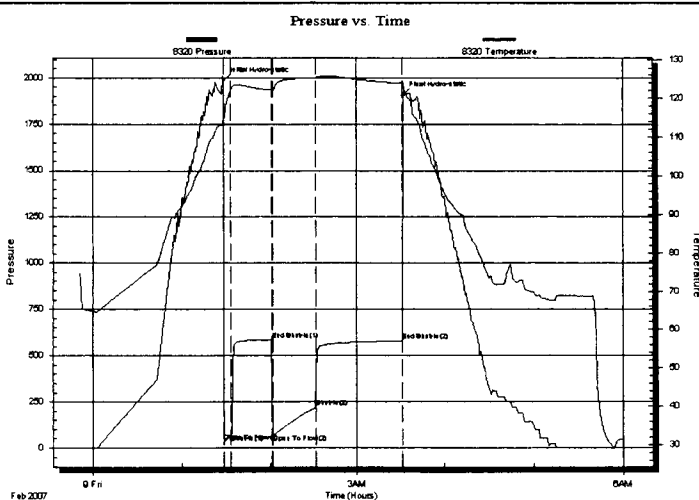
Capacity: 7000.00 psig

Last Calib.: 2007.02.09

Time On Btm: 2007.02.09 @ 01:28:55

Time Off Btm: 2007.02.09 @ 03:31:45

TEST COMMENT: IFP BOB in 2 min
ISI Weak surface blow back built to 4 "
FFP BOB in 1.5 min
FSI BOB in 46 min



PRESSURE SUMMARY

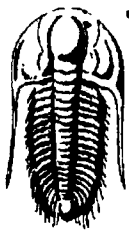
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1983.66	115.49	Initial Hydro-static
1	30.44	114.66	Open To Flow (1)
5	70.49	122.59	Shut-In (1)
33	585.34	122.21	End Shut-In (1)
33	73.43	122.03	Open To Flow (2)
63	217.23	125.42	Shut-In (2)
123	578.81	123.96	End Shut-In (2)
123	1901.58	124.34	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	GHOCM 5%G 25%O 70%M	0.30
60.00	GMO 5%G 80%O 15%M	0.30
452.00	GCO 25%G 75%O	6.41

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Crawford Oil CO

Schuster #1-32

PO Box 1366
El Dorado KS 67042

3214S 21W Trego KS

Job Ticket: 27495

DST#: 2

ATTN: Bob Peterson

Test Start: 2007.02.08 @ 23:50:45

Tool Information

Drill Pipe:	Length: 3811.00 ft	Diameter: 3.82 inches	Volume: 54.02 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: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 65000.00 lb
		Total Volume: 54.61 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 46000.00 lb
Depth to Top Packer:	3949.00 ft			Final 49000.00 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			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	8320	Inside	3950.00	
Perforations	9.00			3959.00	
Recorder	0.00	3351	Inside	3959.00	
Bullnose	3.00			3962.00	13.00 Bottom Packers & Anchor

Total Tool Length: 41.00



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DRILL STEM TEST REPORT

FLUID SUMMARY

Crawford Oil CO

Schuster #1-32

PO Box 1366
El Dorado KS 67042

3214S 21W Trego KS

Job Ticket: 27495

DST#: 2

ATTN: Bob Peterson

Test Start: 2007.02.08 @ 23:50:45

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

43 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	GHOCM5%G 25%O 70%M	0.295
60.00	GMO 5%G 80%O 15%M	0.295
452.00	GCO 25%G 75%O	6.407

Total Length: 572.00 ft

Total Volume: 6.997 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

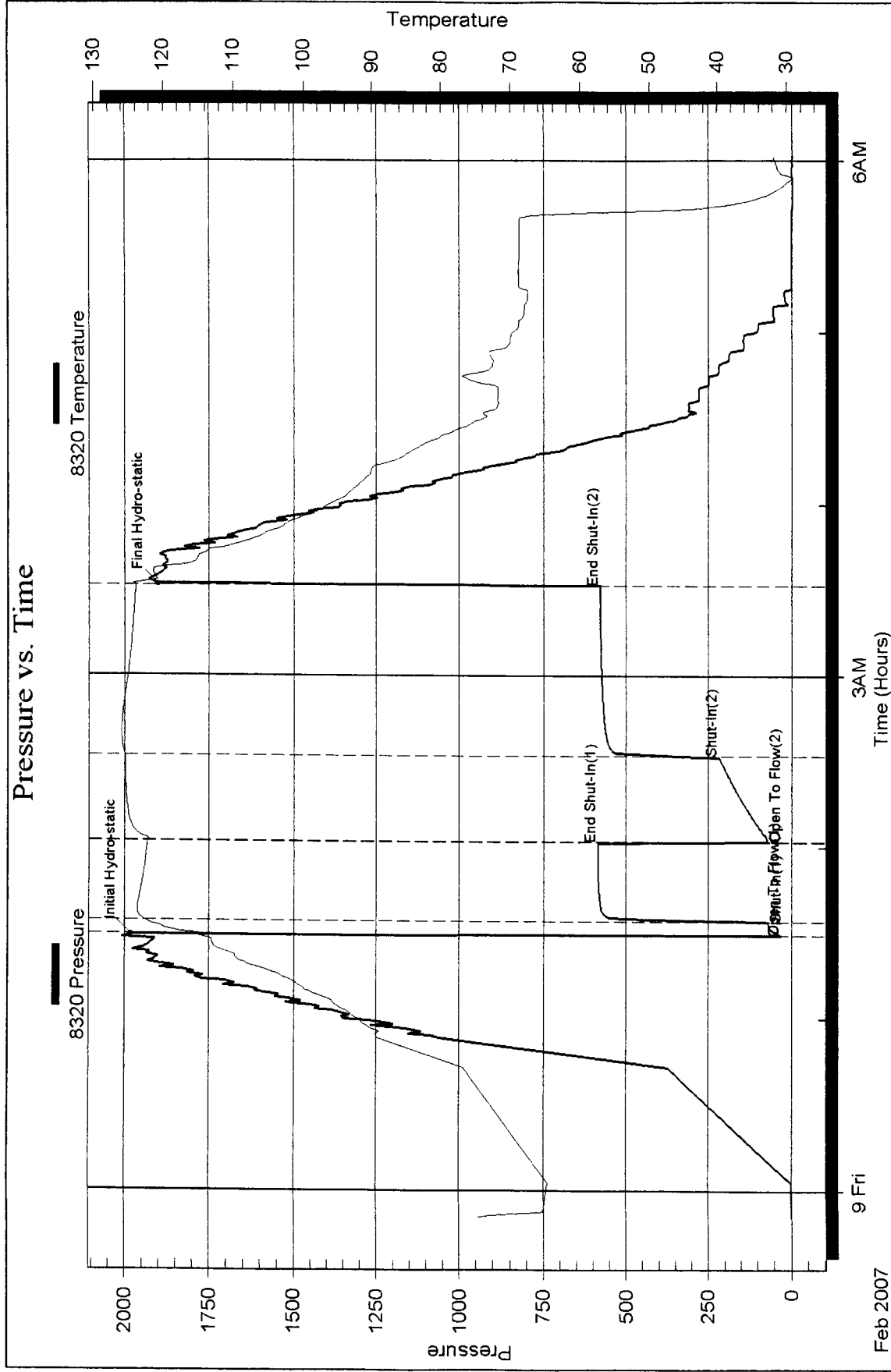
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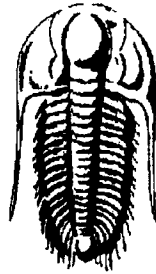
Inside

Crawford Oil CO

3214S 21W Trego KS

DST Test Number: 2





TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Crawford Oil CO**

PO Box 1366
El Dorado KS 67042

ATTN: Bob Peterson

3214S 21W Trego KS

Schuster #1-32

Start Date: 2007.02.09 @ 14:45:20

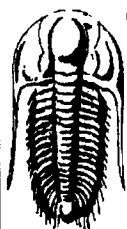
End Date: 2007.02.09 @ 21:34:20

Job Ticket #: 27496 DST #: 3

Trilobite Testing, Inc

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Crawford Oil CO

PO Box 1366
El Dorado KS 67042

ATTN: Bob Peterson

Schuster #1-32

3214S 21W Trego KS

Job Ticket: 27496

DST#: 3

Test Start: 2007.02.09 @ 14:45:20

GENERAL INFORMATION:

Formation: **Kutina**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:42:40

Time Test Ended: 21:34:20

Test Type: Conventional Bottom Hole

Tester: Tyson Flax

Unit No: 21

Interval: **3979.00 ft (KB) To 3994.00 ft (KB) (TVD)**

Total Depth: 3994.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2116.00 ft (KB)

2111.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8320

Inside

Press@RunDepth: 247.12 psig @ 3982.00 ft (KB)

Start Date: 2007.02.09

End Date:

2007.02.09

Capacity: 7000.00 psig

Last Calib.: 2007.02.09

Start Time: 14:45:22

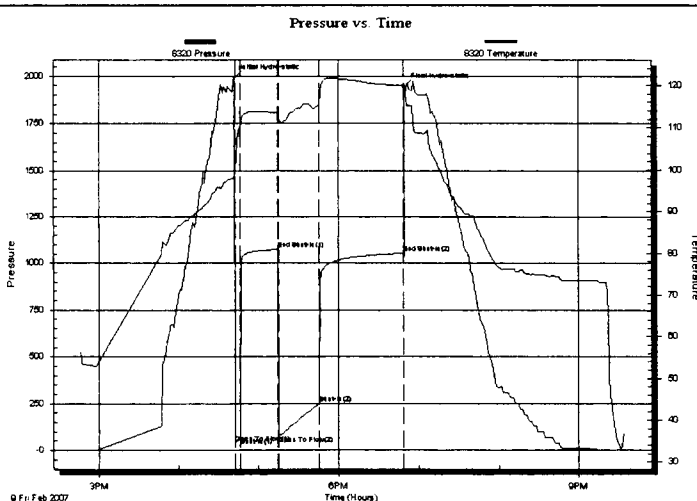
End Time:

21:34:20

Time On Btm: 2007.02.09 @ 16:42:20

Time Off Btm: 2007.02.09 @ 18:49:09

TEST COMMENT: IFP BOB in 3 min
ISI Weak blow back built to 3.5 "
FFP BOB in 2.5 min
FSI Weak blow back built to BOB in 56 min



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1989.40	98.28	Initial Hydro-static
1	37.26	98.36	Open To Flow (1)
4	66.94	109.82	Shut-In(1)
33	1072.76	113.48	End Shut-In(1)
34	79.71	112.70	Open To Flow (2)
64	247.12	115.29	Shut-In(2)
127	1053.71	119.91	End Shut-In(2)
127	1942.48	120.34	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	SOCWM 5%O 10%W 85%M	0.30
60.00	OCM 10%O 90%M	0.30
60.00	GHOCM 10%G 40%O 50%M	0.85
380.00	GCO 30%G 70%O	5.39
0.00	240' 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

Crawford Oil CO

Schuster #1-32

PO Box 1366
El Dorado KS 67042

3214S 21W Trego KS

Job Ticket: 27496

DST#: 3

ATTN: Bob Peterson

Test Start: 2007.02.09 @ 14:45:20

Tool Information

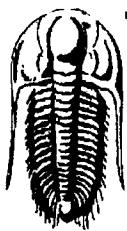
Drill Pipe:	Length: 3842.00 ft	Diameter: 3.82 inches	Volume: 54.46 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose:	60000.00 lb
		Total Volume:	55.05 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	11.00 ft			String Weight: Initial	46000.00 lb
Depth to Top Packer:	3979.00 ft			Final	48000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	15.00 ft				
Tool Length:	43.00 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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Change Over Sub	1.00			3952.00	
Shut In Tool	5.00			3957.00	
Hydraulic tool	5.00			3962.00	
Jars	5.00			3967.00	
Safety Joint	2.00			3969.00	
Packer	5.00			3974.00	28.00 Bottom Of Top Packer
Packer	5.00			3979.00	
Stubb	1.00			3980.00	
Perforations	2.00			3982.00	
Recorder	0.00	8320	Inside	3982.00	
Safety Joint	9.00			3991.00	
Recorder	0.00	3351	Inside	3991.00	
Bullnose	3.00			3994.00	15.00 Bottom Packers & Anchor

Total Tool Length: 43.00



TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

Crawford Oil CO

Schuster #1-32

PO Box 1366
El Dorado KS 67042

3214S 21W Trego KS

Job Ticket: 27496

DST#: 3

ATTN: Bob Peterson

Test Start: 2007.02.09 @ 14:45:20

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

42 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 46.00 sec/qt

Cushion Volume:

bbl

Water Loss: 9.59 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4900.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	SOCWM 5%O 10%W 85%M	0.295
60.00	OCM 10%O 90%M	0.295
60.00	GHOCM 10%G 40%O 50%M	0.851
380.00	GCO 30%G 70%O	5.387
0.00	240' GIP	0.000

Total Length: 560.00 ft

Total Volume: 6.828 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

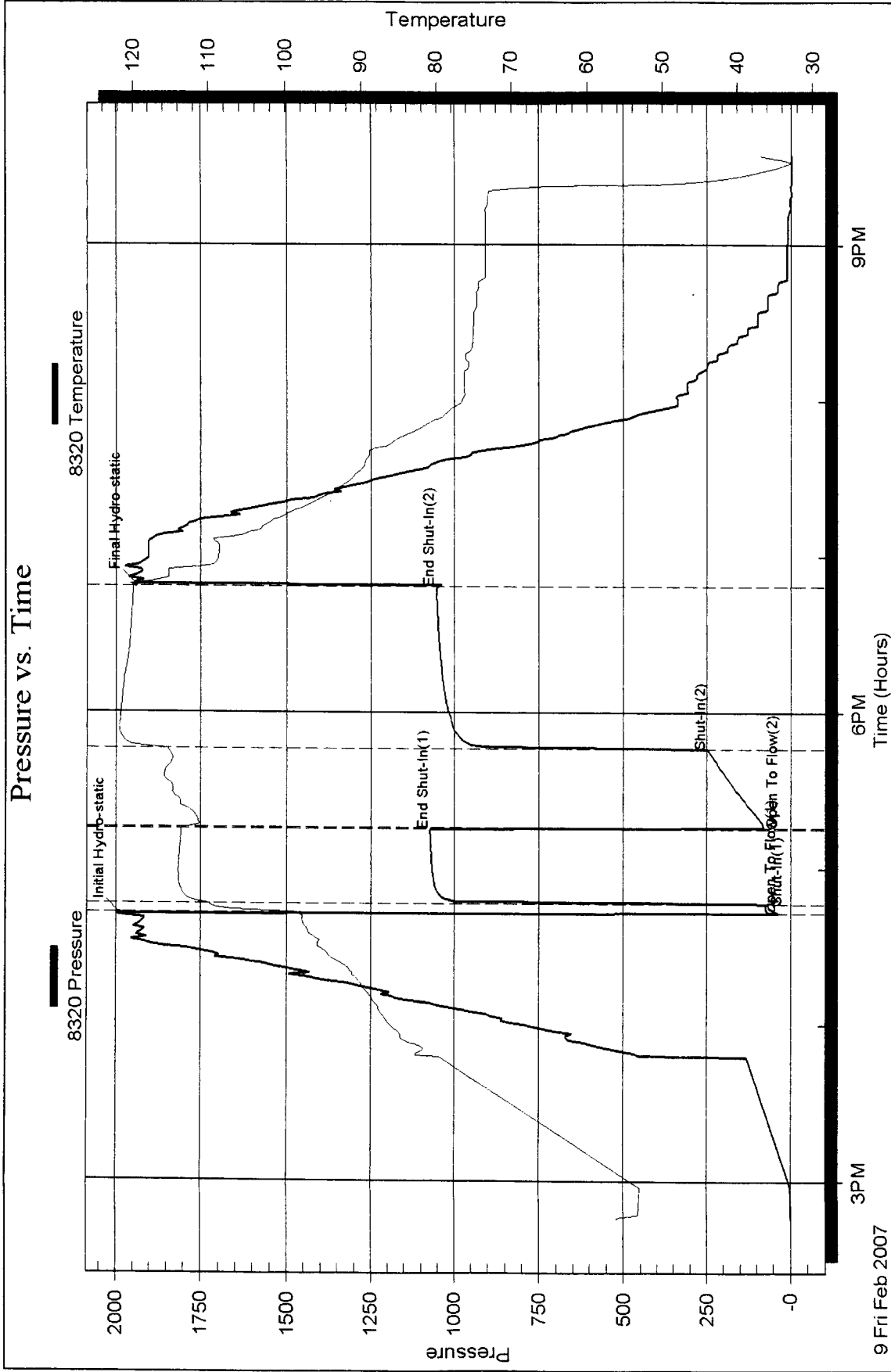
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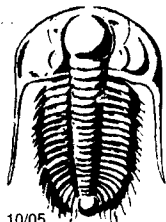
Inside

Crawford Oil Co

3214S21W Trego KS

DST Test Number: 3





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

27494

9839

Test Ticket

Well Name & No. Schuster #1-32 Test No. 1 Date 2-8-07
 Company Crawford Oil Co. Zone Tested Cherokee "B"
 Address P.O. Box 1366 El Dorado, KS 67042 Elevation 2116 KB 2111 GL
 Co. Rep / Geo. Bob Peterson Rig WW#6
 Location: Sec. 32 Twp. 14S Rge. 21W Co. Trego State KS
 Comment: _____ Release date / time: _____

Interval Tested 3898 - 3962 Initial Str Wt./Lbs. 42000 Unseated Str Wt./Lbs. 46000
 Anchor Length 64' Wt. Set Lbs. 25000 Wt. Pulled Loose/Lbs. 50000
 Top Packer Depth 3893 Tool Weight 2500
 Bottom Packer Depth 3898 Hole Size 7 7/8" Rubber Size 6 3/4"
 Total Depth 3962 Wt. Pipe Run _____ Drill Collar Run 120
 Mud Wt. 9.2 LCM _____ Vis. 52 WL 8.0 Drill Pipe Size 4 1/2 FH Ft. Run 3780
 Blow Description IFP - BOB in 3 min

ISI - weak surface blow throughout

FFP - BOB in 2.5 min

FSI - weak blow back built to 5" in 10 min blow throughout

Recovery - Total Feet 630 GIP 330 Ft. in DC _____ Ft. in DP _____
 Rec. 90 Feet of G50CM 10 %gas 5 %oil %water 85 %mud
 Rec. 240 Feet of G1MCO 30 %gas 40 %oil %water 30 %mud
 Rec. 240 Feet of GCO 10 %gas 90 %oil %water %mud
 Rec. 60 Feet of G1MCO 10 %gas 70 %oil %water 20 %mud
 Rec. _____ Feet of _____ %gas %oil %water %mud
 BHT 116 °F Gravity 41 °API D @ 40 °F Corrected Gravity 43 °API
 RW _____ @ _____ °F Chlorides _____ ppm Recovery _____ Chlorides 4000 ppm System

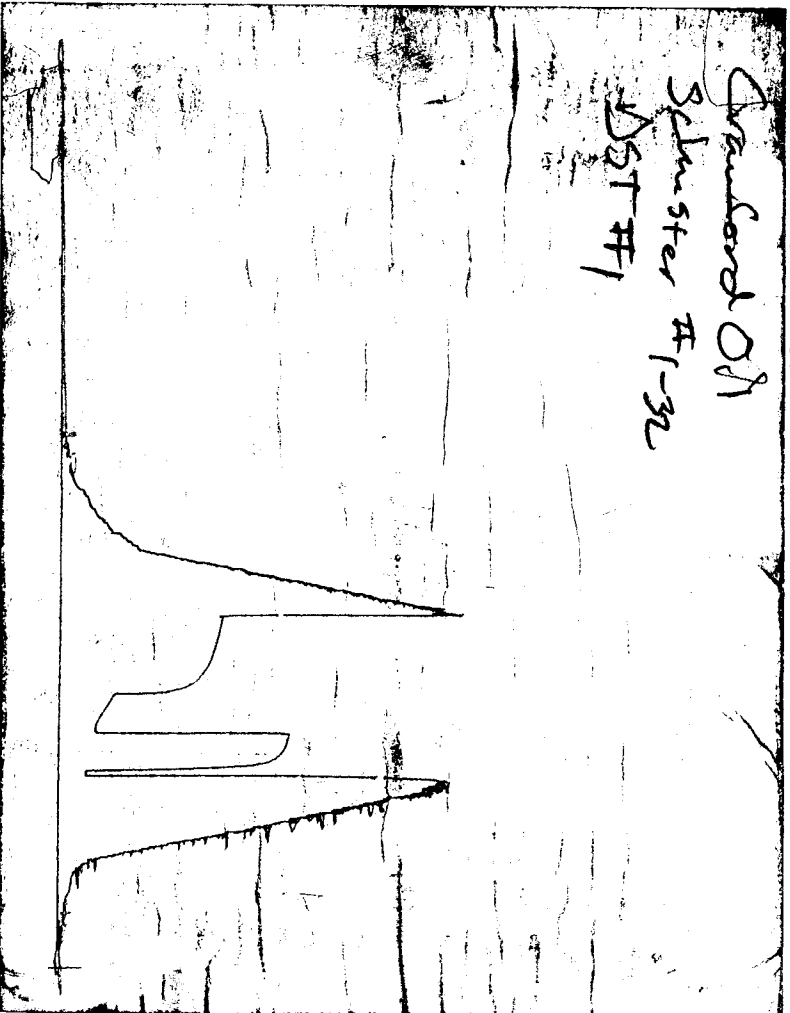
	AK-1	Alpine			
(A) Initial Hydrostatic Mud	<u>1953</u>	PSI	Recorder No.	<u>8320</u>	Test X <u>1100</u>
(B) First Initial Flow Pressure	<u>39</u>	PSI	(depth)	<u>3904</u>	Jars X <u>250</u>
(C) First Final Flow Pressure	<u>99</u>	PSI	Recorder No.	<u>3351</u>	Safety Jt. X <u>75</u>
(D) Initial Shut-In Pressure	<u>1154</u>	PSI	(depth)	<u>3959</u>	Circ Sub _____
(E) Second Initial Flow Pressure	<u>100</u>	PSI	Recorder No.	_____	Sampler _____
(F) Second Final Flow Pressure	<u>260</u>	PSI	(depth)	_____	Straddle _____
(G) Final Shut-In Pressure	<u>803</u>	PSI	Initial Opening	<u>3</u>	Ext. Packer _____
(Q) Final Hydrostatic Mud	<u>1904</u>	PSI	Initial Shut-In	<u>30</u>	Shale Packer _____
			Final Flow	<u>30</u>	Ruined Packer _____
			Final Shut-In	<u>60</u>	Mileage X <u>94</u> <u>117.57</u>
			T-On Location	<u>14:50</u>	Sub Total: _____
			T-Started	<u>15:50</u>	Std. By _____
			T-Open	<u>17:42</u>	Acc. Chg: <u>\$1542.50</u>
			T-Pulled	<u>19:45</u>	Other: _____
			T-Out	<u>22:19</u>	Total: _____

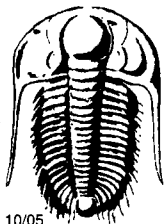
TRILOBITE TESTING INC. SHALL NOT BE LIABLE FOR DAMAGED OF ANY KIND OF THE PROPERTY OR PERSONNEL OF THE ONE FOR WHOM A TEST IS MADE, OR FOR ANY LOSS SUFFERED OR SUSTAINED, DIRECTLY OR INDIRECTLY, THROUGH THE USE OF ITS EQUIPMENT, OR ITS STATEMENTS OR OPINION CONCERNING THE RESULTS OF ANY TEST. TOOLS LOST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

Approved By Garry Ede Crawford
 Our Representative G. Ede

CHART PAGE

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





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

27495

Test Ticket

Well Name & No. <u>Schuster #1-32</u>	Test No. <u>2</u>	Date <u>2-9-07</u>
Company <u>Crawford Oil Co</u>	Zone Tested <u>Cherokee</u>	
Address <u>P.O. Box 1366 El Dorado, KS 67042</u>	Elevation <u>2116</u>	KB <u>2111</u> GL
Co. Rep / Geo. <u>Bob Peterson</u>	Rig <u>WW#6</u>	
Location: Sec. <u>32</u> Twp. <u>14S</u> Rge. <u>21W</u>	Co. <u>Trego</u>	State <u>KS</u>
Comment: _____		Release date / time: _____

Interval Tested <u>3949-3962</u>	Initial Str Wt./Lbs. <u>46000</u>	Unseated Str Wt./Lbs. <u>49000</u>
Anchor Length <u>13'</u>	Wt. Set Lbs. <u>25000</u>	Wt. Pulled Loose/Lbs. <u>65000</u>
Top Packer Depth <u>3944</u>	Tool Weight <u>2200</u>	
Bottom Packer Depth <u>3949</u>	Hole Size <u>7 7/8"</u>	Rubber Size <u>6 3/4"</u>
Total Depth <u>3962</u>	Wt. Pipe Run _____	Drill Collar Run <u>120</u>
Mud Wt. <u>9.2</u> LCM <u>—</u> Vis. <u>52</u> WL <u>8.0</u>	Drill Pipe Size <u>4 1/2 FH</u>	Ft. Run <u>3811</u>
Blow Description <u>IFP - BOB in 2 min</u>		
<u>TST - weak surface blow back built to 4"</u>		
<u>FFP - BOB in 1.5 min</u>		
<u>FST - BOB in 46 min</u>		

Recovery - Total Feet <u>572</u>	GIP <u>928</u>	Ft. in DC <u>120</u>	Ft. in DP <u>452</u>
Rec. <u>452</u>	Feet of <u>GCO</u>	<u>25%</u> gas <u>75%</u> oil	%water %mud
Rec. <u>60</u>	Feet of <u>GMO</u>	<u>5%</u> gas <u>80%</u> oil	%water <u>15%</u> mud
Rec. <u>60</u>	Feet of <u>GHOcm</u>	<u>5%</u> gas <u>25%</u> oil	%water <u>70%</u> mud
Rec. _____	Feet of _____	%gas %oil	%water %mud
Rec. _____	Feet of _____	%gas %oil	%water %mud
BHT <u>124</u>	°F Gravity <u>41</u>	°API D @ <u>40</u>	°F Corrected Gravity <u>43</u> °API
RW _____ @ _____ °F	Chlorides _____ ppm	Recovery _____	Chlorides <u>4000</u> ppm System

	AK-1	Alpine			
(A) Initial Hydrostatic Mud	<u>1975</u>	PSI	Recorder No. <u>6320</u>	Test <u>X</u>	<u>1100</u>
(B) First Initial Flow Pressure	<u>30</u>	PSI	(depth) <u>3950</u>	Jars <u>X</u>	<u>250</u>
(C) First Final Flow Pressure	<u>76</u>	PSI	Recorder No. <u>3351</u>	Safety Jt. <u>X</u>	<u>75</u>
(D) Initial Shut-In Pressure	<u>585</u>	PSI	(depth) <u>3959</u>	Circ Sub _____	
(E) Second Initial Flow Pressure	<u>73</u>	PSI	Recorder No. _____	Sampler _____	
(F) Second Final Flow Pressure	<u>217</u>	PSI	(depth) _____	Straddle _____	
(G) Final Shut-In Pressure	<u>579</u>	PSI	Initial Opening <u>3</u>	Ext. Packer _____	
(Q) Final Hydrostatic Mud	<u>1923</u>	PSI	Initial Shut-In <u>30</u>	Shale Packer _____	

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Approved By _____

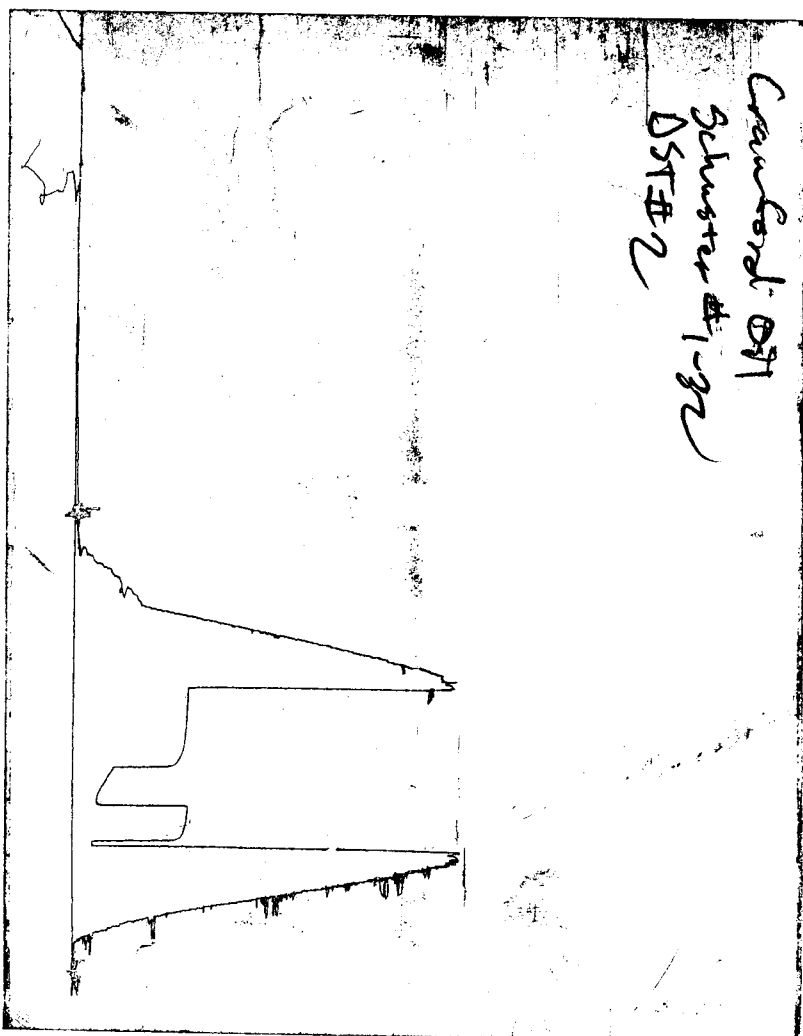
Our Representative [Signature]

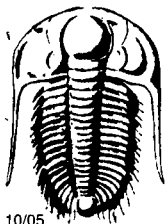
Final Flow <u>30</u>	Ruined Packer _____
Final Shut-In <u>60</u>	Mileage <u>X</u> <u>117.50</u>
T-On Location	Sub Total: _____
T-Started <u>23:</u>	Std. By _____
T-Open <u>1:28</u>	Acc. Chg: <u>1542.50</u>
T-Pulled <u>3:31</u>	Other: _____
T-Out <u>6:01</u>	Total: _____

CHART PAGE

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

Crawford 011
Schuster #1-32
DST #2





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

27496

Test Ticket

Well Name & No. Schuster #1-32 Test No. 3 Date 2-9-07
 Company Crawford Oil Zone Tested Karina
 Address P.O. Box 1366 El Dorado, KS 67042 Elevation 2116 KB 2111 GL
 Co. Rep / Geo. Bob Peterson Rig WWT6
 Location: Sec. 32 Twp. 14S Rge. 21W Co. Trego State KS
 Comment: _____ Release date / time: _____

Interval Tested 3979 - 3994 Initial Str Wt./Lbs. 46000 Unseated Str Wt./Lbs. 48000
 Anchor Length 15 Wt. Set Lbs. 25000 Wt. Pulled Loose/Lbs. 60000
 Top Packer Depth 3974 Tool Weight 2500
 Bottom Packer Depth 3979 Hole Size 7 7/8" Rubber Size 6 3/4"
 Total Depth 3994 Wt. Pipe Run _____ Drill Collar Run 20
 Mud Wt. 9.2 LCM — Vis. 46 WL 9.4 Drill Pipe Size 4 1/2 FH Ft. Run 3842
 Blow Description IFP - BOB in 3 min

ISI - weak blow back built to 3.5"

FFP - BOB in 2.5 min

FSI - BOB in ~~2.5~~ 3 min

Recovery - Total Feet 560 GIP 240 Ft. in DC 120 Ft. in DP 440
 Rec. 380 Feet of GCO 30% gas 70 %oil %water %mud
 Rec. 60 Feet of GHOcm 10% gas 40 %oil %water 50 %mud
 Rec. 60 Feet of OLCM %gas 10 %oil %water 90 %mud
 Rec. 60 Feet of SOCWM %gas 5 %oil 10 %water 85 %mud
 Rec. _____ Feet of _____ %gas %oil %water %mud
 BHT 120 °F Gravity 40 °API D @ 40 °F Corrected Gravity 40 °API
 RW _____ @ _____ °F Chlorides _____ ppm Recovery _____ Chlorides 4800 ppm System

	AK-1	Alpine			
(A) Initial Hydrostatic Mud	<u>1989</u>	PSI	Recorder No.	<u>8320</u>	Test <u>X</u> <u>1100</u>
(B) First Initial Flow Pressure	<u>37</u>	PSI	(depth)	<u>3982</u>	Jars <u>X</u> <u>250</u>
(C) First Final Flow Pressure	<u>67</u>	PSI	Recorder No.	<u>3351</u>	Safety Jt. <u>X</u> <u>75</u>
(D) Initial Shut-In Pressure	<u>1073</u>	PSI	(depth)	<u>3991</u>	Circ Sub _____
(E) Second Initial Flow Pressure	<u>80</u>	PSI	Recorder No.	_____	Sampler _____
(F) Second Final Flow Pressure	<u>247</u>	PSI	(depth)	_____	Straddle _____
(G) Final Shut-In Pressure	<u>1054</u>	PSI	Initial Opening	<u>3</u>	Ext. Packer _____
(Q) Final Hydrostatic Mud	<u>1945</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>117.50</u>
			T-On Location	<u>14:30</u>	Sub Total: _____
			T-Started	<u>14:45</u>	Std. By _____
			T-Open	<u>16:42</u>	Acc. Chg: _____
			T-Pulled	<u>18:45</u>	Other: <u>1542.50</u>
			T-Out	<u>21:34</u>	Total: _____

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Approved By _____

Our Representative by FHP

CHART PAGE

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

Crawford
Shuster #1-32
DST #3

