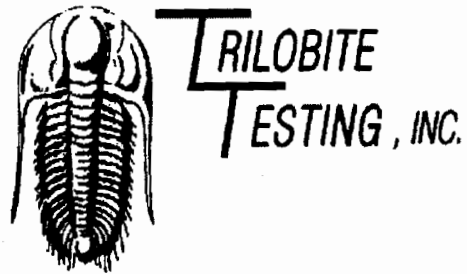


15-009-24893

15-16s-12w



DRILL STEM TEST REPORT

Prepared For: **Craig Oil Co.**

15 S Main
Russell KS 67665

ATTN: Ward Craig

15-16s-12w

Kramer # 5

Start Date: 2006.01.11 @ 04:07:07

End Date: 2006.01.11 @ 09:15:37

Job Ticket #: 23312 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Craig Oil Co.

Kramer # 5

15-16s-12w

DST # 1

L.K.C.-A & B

2006.01.11



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Craig Oil Co.

15 S Main
Russell KS 67665

ATTN: Ward Craig

Kramer # 5

15-16s-12w

Job Ticket: 23312

DST#: 1

Test Start: 2006.01.11 @ 04:07:07

GENERAL INFORMATION:

Formation: **L.Kc.-A & B**

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

Time Tool Opened: 06:02:07

Time Test Ended: 09:15:37

Test Type: **Conventional Bottom Hole**

Tester: **John Schmidt**

Unit No: **31**

Interval: **3083.00 ft (KB) To 3130.00 ft (KB) (TVD)**

Total Depth: **3130.00 ft (KB) (TVD)**

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

Reference Elevations: **1935.00 ft (KB)**

1930.00 ft (CF)

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

Serial #: 8018 **Inside**

Press@RunDepth: **17.14 psig @ 3091.00 ft (KB)**

Start Date: **2006.01.11**

End Date: **2006.01.11**

Capacity: **7000.00 psig**

Last Calib.: **2006.01.11**

Start Time: **04:07:12**

End Time: **09:15:36**

Time On Btm: **2006.01.11 @ 06:01:07**

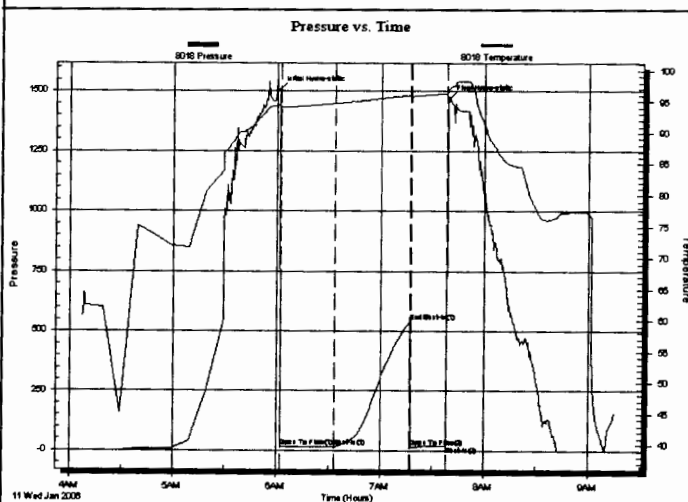
Time Off Btm: **2006.01.11 @ 07:39:07**

TEST COMMENT: **F-Weak built to 1 & 1/4" in.**

ISI-Dead

FF-Dead

no-FSI



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1505.45	94.50	Initial Hydro-static
1	14.90	94.15	Open To Flow (1)
32	17.14	94.73	Shut-In(1)
76	539.01	96.05	End Shut-In(1)
76	17.47	95.89	Open To Flow (2)
97	18.79	96.36	Shut-In(2)
98	1470.65	97.03	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	D.Mud few oil spots	0.07

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Craig Oil Co.

Kramer # 5

15 S Main
Russell KS 67665

15-16s-12w

Job Ticket: 23312

DST#: 1

ATTN: Ward Craig

Test Start: 2006.01.11 @ 04:07:07

Tool Information

Drill Pipe:	Length: 3073.00 ft	Diameter: 3.80 inches	Volume: 43.11 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose:	40000.00 lb
			Total Volume: 43.11 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial	33000.00 lb
Depth to Top Packer:	3083.00 ft			Final	33000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	47.00 ft				
Tool Length:	67.00 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			3064.00	
Shut In Tool	5.00			3069.00	
Hydraulic tool	5.00			3074.00	
Packer	4.00			3078.00	20.00 Bottom Of Top Packer
Packer	5.00			3083.00	
Stubb	1.00			3084.00	
Perforations	6.00			3090.00	
Change Over Sub	1.00			3091.00	
Recorder	0.00	8018	Inside	3091.00	
Blank Spacing	30.00			3121.00	
Change Over Sub	1.00			3122.00	
Perforations	5.00			3127.00	
Recorder	0.00	11084	Outside	3127.00	
Bullnose	3.00			3130.00	47.00 Bottom Packers & Anchor

Total Tool Length: 67.00



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Craig Oil Co.

Kramer # 5

15 S Main
Russell KS 67665

15-16s-12w

Job Ticket: 23312

DST#: 1

ATTN: Ward Craig

Test Start: 2006.01.11 @ 04:07:07

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: 50.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.39 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	D.Mud few oil spots	0.070

Total Length: 5.00 ft

Total Volume: 0.070 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

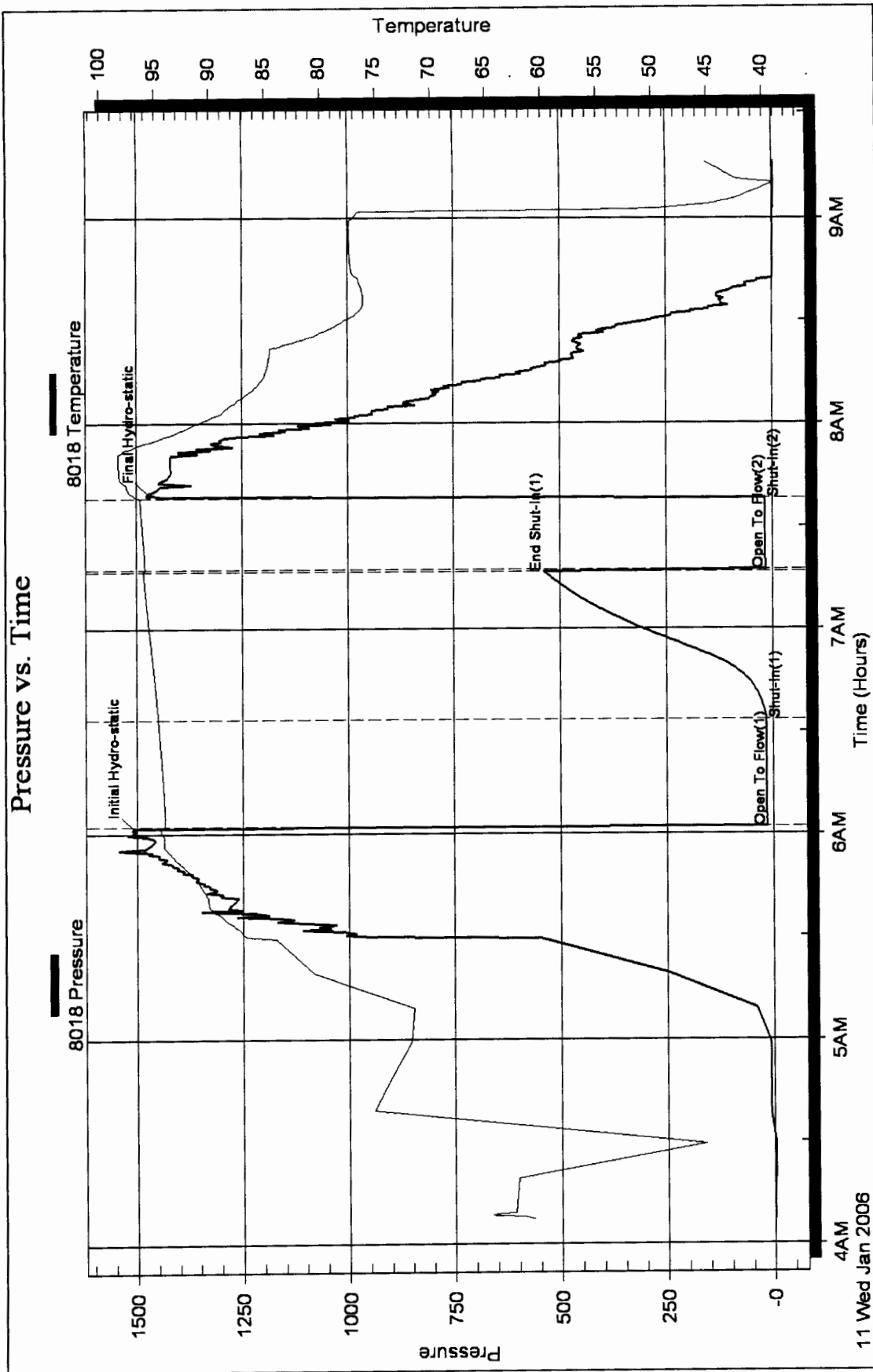
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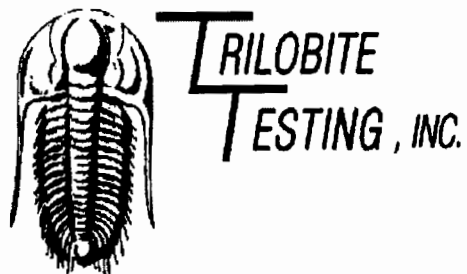
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Craig Oil Co.**

15 S Main
Russell KS 67665

ATTN: Ward Craig

15-16s-12w

Kramer # 5

Start Date: 2006.01.12 @ 02:36:59

End Date: 2006.01.12 @ 07:17:59

Job Ticket #: 23313

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

Craig Oil Co.

15 S Main
Russell KS 67665

ATTN: Ward Craig

Kramer # 5

15-16s-12w

Job Ticket: 23313

DST#: 2

Test Start: 2006.01.12 @ 02:36:59

GENERAL INFORMATION:

Formation: **L.Kc.-**

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

Time Tool Opened: 04:14:59

Time Test Ended: 07:17:59

Test Type: **Conventional Bottom Hole**

Tester: **John Schmidt**

Unit No: **31**

Interval: **3220.00 ft (KB) To 3280.00 ft (KB) (TVD)**

Total Depth: **3280.00 ft (KB) (TVD)**

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

Reference Elevations: **1935.00 ft (KB)**

1930.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8018

Inside

Press@RunDepth: **18.54 psig @ 3224.00 ft (KB)**

Start Date: **2006.01.12**

End Date:

2006.01.12

Start Time: **02:37:04**

End Time:

07:17:58

Capacity: **7000.00 psig**

Last Calib.: **2006.01.12**

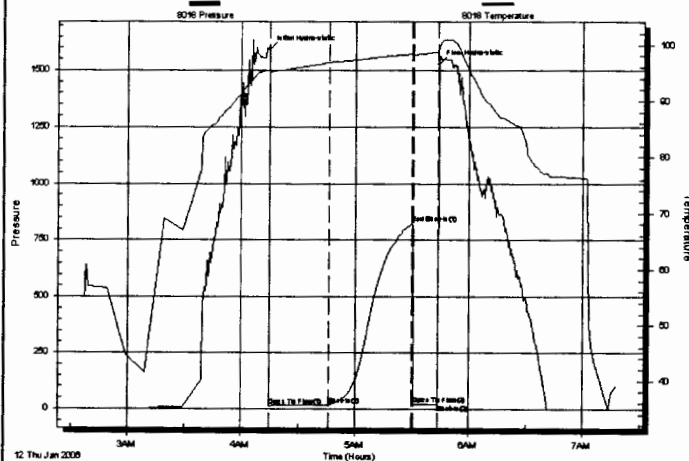
Time On Btm: **2006.01.12 @ 04:14:29**

Time Off Btm: **2006.01.12 @ 05:43:59**

TEST COMMENT: **IF-Weak surface**
FF-Weak surface

ISI-Dead
no-FSI

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1594.35	95.52	Initial Hydro-static
1	14.05	95.15	Open To Flow (1)
32	18.54	96.88	Shut-In (1)
75	823.69	98.37	End Shut-In (1)
76	20.18	98.18	Open To Flow (2)
89	21.86	98.80	Shut-In (2)
90	1528.54	99.63	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	D.Mud few oil spots	0.14

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Craig Oil Co.

Kramer # 5

15 S Main
Russell KS 67665

15-16s-12w

Job Ticket: 23313

DST#: 2

ATTN: Ward Craig

Test Start: 2006.01.12 @ 02:36:59

Tool Information

Drill Pipe:	Length: 3230.00 ft	Diameter: 3.80 inches	Volume: 45.31 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose:	40000.00 lb
		Total Volume:	45.31 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial	33000.00 lb
Depth to Top Packer:	3220.00 ft			Final	33000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	60.00 ft				
Tool Length:	80.00 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			3201.00	
Shut In Tool	5.00			3206.00	
Hydraulic tool	5.00			3211.00	
Packer	4.00			3215.00	20.00 Bottom Of Top Packer
Packer	5.00			3220.00	
Stubb	1.00			3221.00	
Perforations	2.00			3223.00	
Change Over Sub	1.00			3224.00	
Recorder	0.00	8018	Inside	3224.00	
Blank Spacing	32.00			3256.00	
Change Over Sub	1.00			3257.00	
Recorder	0.00	11084	Outside	3257.00	
Perforations	20.00			3277.00	
Bullnose	3.00			3280.00	60.00 Bottom Packers & Anchor

Total Tool Length: 80.00



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Craig Oil Co.

Kramer # 5

15 S Main
Russell KS 67665

15-16s-12w

Job Ticket: 23313

DST#: 2

ATTN: Ward Craig

Test Start: 2006.01.12 @ 02:36:59

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: 51.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	D.Mud few oil spots	0.140

Total Length:

10.00 ft

Total Volume:

0.140 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

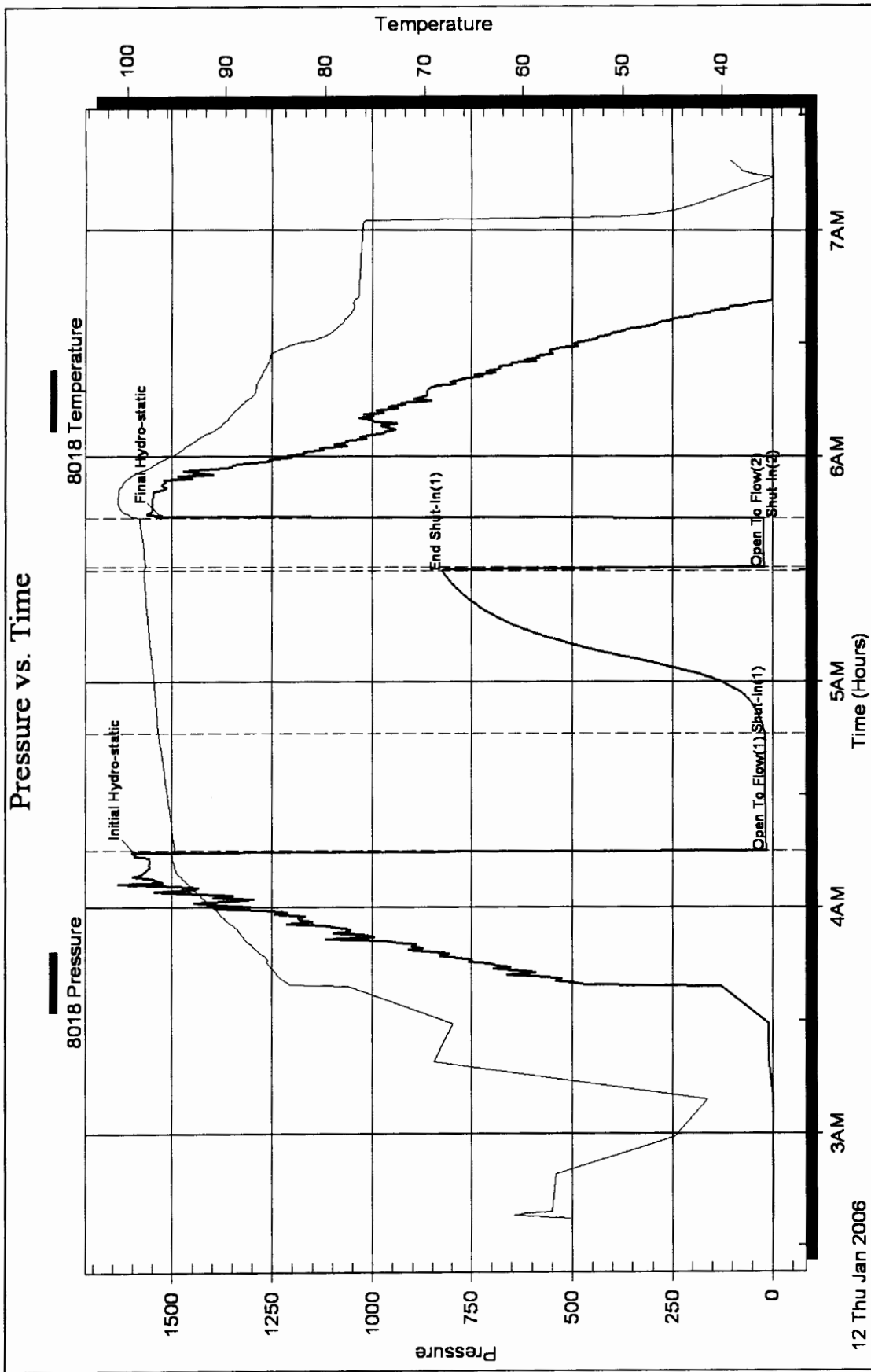
Serial #:

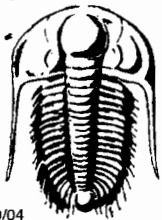
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

INV
8301

No 23312

9/04

Test Ticket

Well Name & No. <u>KRAMER #5</u>	Test No. <u>#1</u>	Date <u>1-11-06</u>
Company <u>CRAIG OIL CO.</u>	Zone Tested <u>L.K.C. - A+B</u>	
Address <u>15 S. MAIN RUSSELL, KS, 67645</u>	Elevation <u>1935</u> KB <u>1930</u> GL	
Co. Rep / Geo. <u>FRANCIS C. WHISLER</u>	Cont. <u>VONFELDT</u>	Est. Ft. of Pay _____ Por. _____ %
Location: Sec. <u>15</u> Twp. <u>16S</u> Rge. <u>12W</u> Co. <u>BARTON</u> State <u>KS</u>		
No. of Copies _____	Disbtribution Sheet (Y, N) _____	Turnkey (Y, N) _____ Evaluation (Y, N) _____

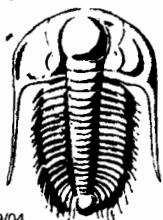
Interval Tested <u>3083 To 3130</u>	Initial Str Wt./Lbs. <u>33,000</u>	Unseated Str Wt/Lbs. <u>33,000</u>
Anchor Length <u>47'</u>	Wt. Set Lbs. <u>23,000</u>	Wt. Pulled Loose/Lbs. <u>40,000</u>
Top Packer Depth <u>3078</u>	Tool Weight <u>2,000</u>	
Bottom Packer Depth <u>3083</u>	Hole Size <u>7 7/8"</u> ✓	Rubber Size <u>6 3/4"</u> ✓
Total Depth <u>3130</u>	Wt. Pipe Run <u>0</u>	Drill Collar Run <u>0</u>
Mud Wt. <u>8.7</u> LCM <u>1/2 #</u> Vis. <u>50</u> WL <u>8.4</u>	Drill Pipe Size <u>4 1/2 XH</u>	Ft. Run <u>3073</u>
Blow Description <u>IF - WEAK BUILT TO 1 1/4" IN. FSI - DEAD</u> <u>FF - DEAD</u> <u>NO-FSI-</u>		

Recovery - Total Feet <u>5'</u>	GIP <u>0</u>	Ft. in DC <u>-</u>	Ft. in DP <u>5'</u>
Rec. <u>5</u>	Feet of <u>P. MUD FEW OIL SPOTS</u>	%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 _____
Rec. _____	Feet of _____	%gas _____	%oil _____ %water _____ %mud _____
BHT <u>96</u>	°F Gravity _____	°API D @ _____	°F Corrected Gravity _____ °API _____
RW _____ @ _____	°F Chlorides _____	ppm Recovery _____	Chlorides _____ ppm System _____

	AK-1	Alpine			
(A) Initial Hydrostatic Mud	<u>1505</u> PSI		Recorder No. <u>8018</u>	Test <u>B. HOLE 1000</u>	
(B) First Initial Flow Pressure	<u>14</u> PSI		(depth) <u>3091</u>	Jars _____	
(C) First Final Flow Pressure	<u>17</u> PSI		Recorder No. <u>11084</u>	Safety Jt. _____	
(D) Initial Shut-In Pressure	<u>539</u> PSI		(depth) <u>3127</u>	Circ Sub _____	
(E) Second Initial Flow Pressure	<u>17</u> PSI		Recorder No. _____	Sampler _____	
(F) Second Final Flow Pressure	<u>18</u> PSI		(depth) _____	Straddle _____	
(G) Final Shut-In Pressure	<u>-</u> PSI		Initial Opening <u>30</u>	Ext. Packer _____	
(Q) Final Hydrostatic Mud	<u>1470</u> PSI		Initial Shut-In <u>45</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>20</u>	Ruined Packer _____	
			Final Shut-In _____	Mileage <u>RT-110 110</u>	
			T-On Location <u>02:00</u>	Sub Total: <u>41110</u>	
			T-Started <u>04:07</u>	Std. By _____	
			T-Open <u>06:02</u>	Other _____	
			T-Pulled <u>07:39</u>	Total: _____	
			T-Out <u>09:15</u>		

Approved By Francis C Whisler

Our Representative John J. Schmidt



TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 23313

Test Ticket

Well Name & No. KRAMER #5 Test No. #2 Date 1-12-06
 Company CRAIG OIL CO Zone Tested L.Kc. H, I, J
 Address _____ Elevation 1935 KB 1430 GL
 Co. Rep / Geo. FRANCISC WHISLER Cont. VONFELD T Est. Ft. of Pay _____ Por. _____ %
 Location: Sec. 15 Twp. 16S Rge. 12W Co. BARTON State KS
 No. of Copies _____ Distribution Sheet (Y, N) _____ Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested 3220 To 3280 Initial Str Wt./Lbs. 33,000 Unseated Str Wt./Lbs. 33,000
 Anchor Length 60' Wt. Set Lbs. 25,000 Wt. Pulled Loose/Lbs. 40,000
 Top Packer Depth 3215 Tool Weight 2,000
 Bottom Packer Depth 3220 Hole Size 7 7/8" ✓ Rubber Size 6 3/4" ✓
 Total Depth _____ Wt. Pipe Run 0 Drill Collar Run 0
 Mud Wt. 9.2 LCM 1/8" Vis. 51 WL 8.8 Drill Pipe Size 4 1/2 XH Ft. Run 3230
 Blow Description IF-WEAK SURFACE ISI-DEAD
FF-WEAK SURFACE NO-PSI

Recovery - Total Feet 10' GIP _____ Ft. in DC _____ Ft. in DP 10'
 Rec. 10 Feet of D.MUD FEW OIL SPOTS %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 _____
 Rec. _____ Feet of _____ %gas _____ %oil _____ %water _____ %mud _____
 BHT 98 °F Gravity _____ °API D @ _____ °F Corrected Gravity _____ °API
 RW _____ @ _____ °F Chlorides _____ ppm Recovery _____ Chlorides 3,000 ppm System

	AK-1	Alpine	Recorder No.	Test
(A) Initial Hydrostatic Mud	<u>1574</u>	PSI	<u>8018</u>	<u>B. HOLE 1000</u>
(B) First Initial Flow Pressure	<u>14</u>	PSI	(depth) <u>3224</u>	Jars _____
(C) First Final Flow Pressure	<u>18</u>	PSI	Recorder No. <u>11084</u>	Safety Jt. _____
(D) Initial Shut-In Pressure	<u>823</u>	PSI	(depth) <u>3257</u>	Circ Sub _____
(E) Second Initial Flow Pressure	<u>20</u>	PSI	Recorder No. _____	Sampler _____
(F) Second Final Flow Pressure	<u>21</u>	PSI	(depth) _____	Straddle _____
(G) Final Shut-In Pressure	<u>-</u>	PSI	Initial Opening <u>30</u>	Ext. Packer _____
(Q) Final Hydrostatic Mud	<u>1528</u>	PSI	Initial Shut-In <u>45</u>	Shale Packer _____

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Approved By Francis Whisler

Our Representative John F. Schmidt

Final Flow 15
 Final Shut-In -
 T-On Location 01:30
 T-Started 02:36
 T-Open 04:14
 T-Pulled 05:43
 T-Out 07:17

Ruined Packer _____
 Mileage RT-58.58
 Sub Total: 1058
 Std. By 2
 Other _____
 Total: _____