

DRILL STEM TEST REPORT

Prepared For: **Hertel Oil Co**

704 E 12th St
Hays KS 67601

ATTN: Randy Kilian

27 14S 19W Ellis KS

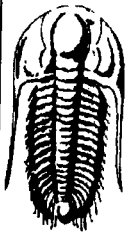
Hertel-Kraus Unit 1

Start Date: 2006.06.03 @ 17:27:20

End Date: 2006.06.04 @ 01:28:48

Job Ticket #: 25055 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

Hertel Oil Co
704 E 12th St
Hays KS 67601
ATTN: Randy Kilian

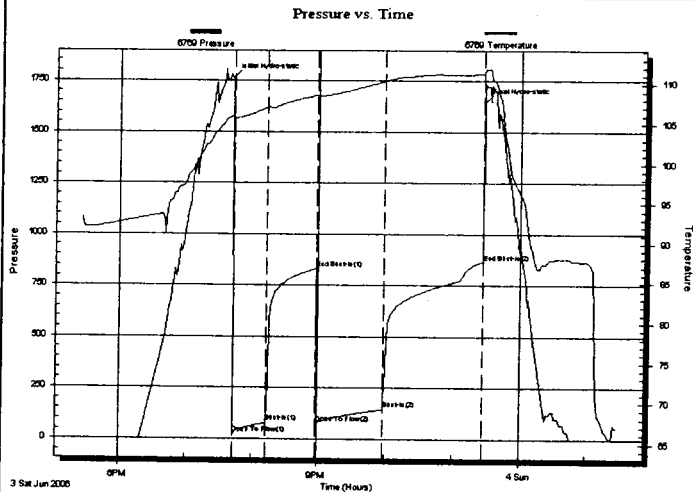
Hertel-Kraus Unit 1
27 14S 19W Ellis KS
Job Ticket: 25055 **DST#: 1**
Test Start: 2006.06.03 @ 17:27:20

GENERAL INFORMATION:

Formation: **LKC "H-K"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 19:43:03
Time Test Ended: 01:28:48
Test Type: Conventional Bottom Hole
Tester: Brian Fairbank
Unit No: 24
Interval: **3596.00 ft (KB) To 3690.00 ft (KB) (TVD)**
Reference Elevations: 2185.00 ft (KB)
Total Depth: 3690.00 ft (KB) (TVD) 2179.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 6.00 ft

Serial #: 6769 Inside
Press@RunDepth: 146.00 psig @ 3604.01 ft (KB) Capacity: 7000.00 psig
Start Date: 2006.06.03 End Date: 2006.06.04 Last Calib.: 2006.06.04
Start Time: 17:27:20 End Time: 01:28:48 Time On Btm: 2006.06.03 @ 19:42:48
Time Off Btm: 2006.06.03 @ 23:27:33

TEST COMMENT: FFP BOB 18 min.
ISI 1" blow back
FFP BOB 5 min
FSI 4" blow back



PRESSURE SUMMARY

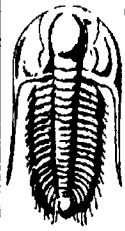
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1761.76	106.07	Initial Hydro-static
1	25.34	105.68	Open To Flow (1)
31	80.86	107.12	Shut-In(1)
76	831.46	108.67	End Shut-In(1)
77	75.01	108.50	Open To Flow (2)
136	146.00	110.27	Shut-In(2)
225	864.60	111.28	End Shut-In(2)
225	1646.00	111.80	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	100%M	0.02
120.00	MW 75%W 25%M	1.46
30.00	GWSOCM 20%G 5%O 35%W 40%M	0.42
60.00	GHOCM 50%G 40%O 10%M	0.84

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Hertel Oil Co
704 E 12th St
Hays KS 67601

Hertel-Kraus Unit 1

27 14S 19W Ellis KS

Job Ticket: 25055

DST#: 1

ATTN: Randy Kilian

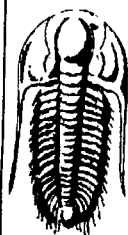
Test Start: 2006.06.03 @ 17:27:20

Tool Information

Drill Pipe:	Length: 3575.00 ft	Diameter: 3.80 inches	Volume: 50.15 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: 25000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 52000.00 lb
			<u>Total Volume: 50.30 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	29.00 ft			String Weight: Initial 43000.00 lb
Depth to Top Packer:	3596.00 ft			Final 44000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	94.02 ft			
Tool Length:	114.02 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
S.I. Tool	5.00			3581.00	
HYD S.I. Tool	5.00			3586.00	
Packer	5.00			3591.00	20.00 Bottom Of Top Packer
Packer	5.00			3596.00	
Stubb	1.00			3597.00	
Perforations	6.00			3603.00	
C.O. Sub	1.00			3604.00	
Recorder	0.01	6769	Inside	3604.01	
Blank Spacing	62.00			3666.01	
C.O. Sub	1.00			3667.01	
Perforations	20.00			3687.01	
Recorder	0.01	13548	Outside	3687.02	
Bullnose	3.00			3690.02	94.02 Bottom Packers & Anchor

Total Tool Length: 114.02



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Hertel Oil Co
704 E 12th St
Hays KS 67601
ATTN: Randy Kilian

Hertel-Kraus Unit 1
27 14S 19W Ellis KS
Job Ticket: 25055 **DST#: 1**
Test Start: 2006.06.03 @ 17:27:20

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: bbl		
Water Loss: 8.73 in ³	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
5.00	100%M	0.025
120.00	MW 75%W 25%M	1.456
30.00	GWSOCM 20%G 5%O 35%W 40%M	0.421
60.00	GHOVM 50%G 40%O 10%M	0.842

Total Length: 215.00 ft Total Volume: 2.744 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments: 600' GIP

Serial #: 6769

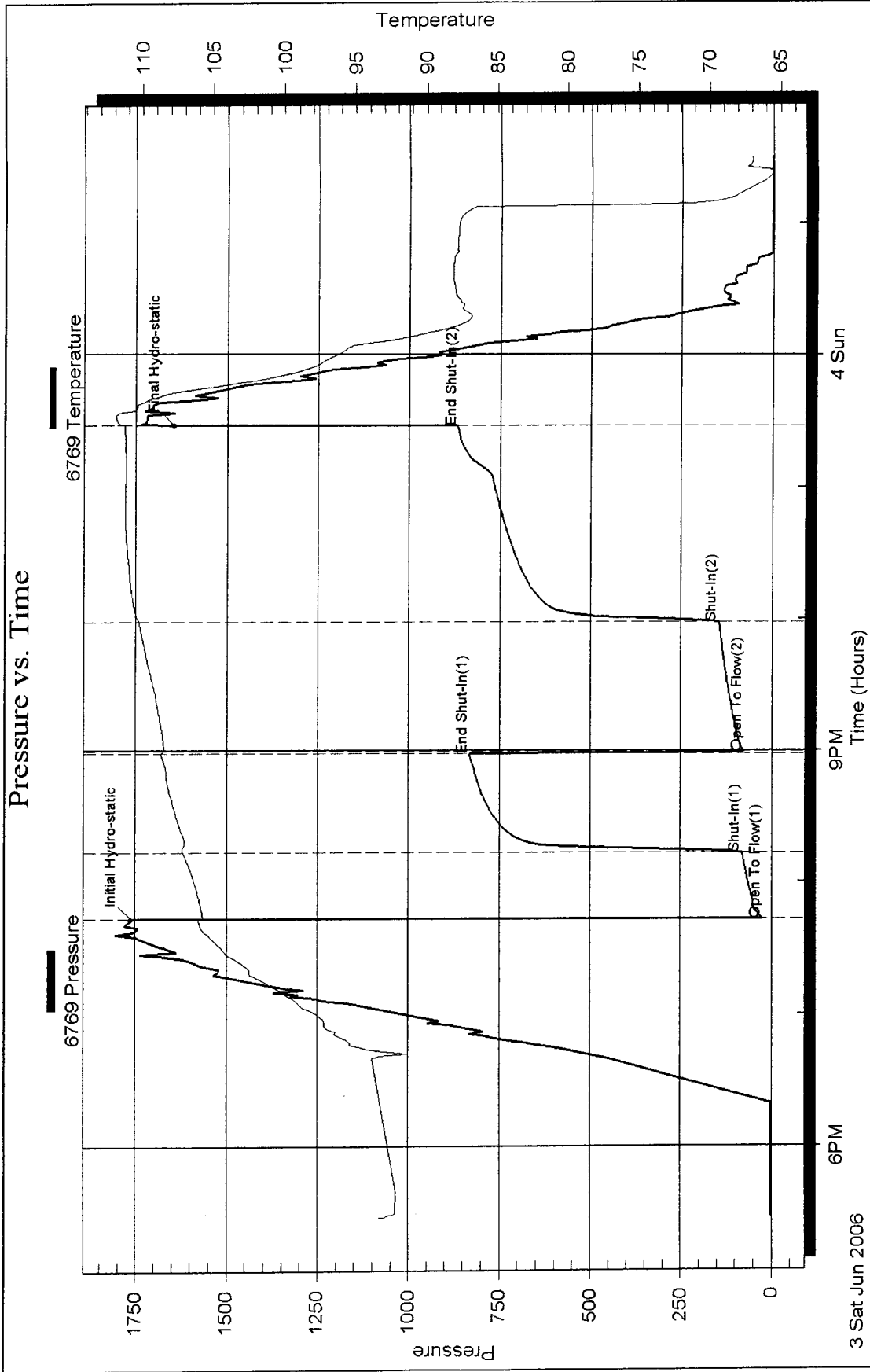
Inside

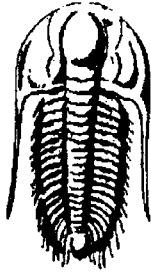
Hertel Oil Co

27 14S 19W Ellis KS

DST Test Number: 1

Pressure vs. Time





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Hertel Oil Co**

704 E 12th St
Hays KS 67601

ATTN: Randy Kilian

27 14S 19W Ellis KS

Hertel-Kraus Unit 1

Start Date: 2006.06.04 @ 13:28:29

End Date: 2006.06.04 @ 19:14:57

Job Ticket #: 25056 DST #: 2

Trilobite Testing, Inc

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

Hertel Oil Co

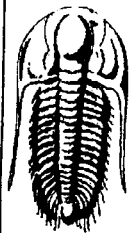
Hertel-Kraus Unit 1

27 14S 19W Ellis KS

DST # 2

Arb. - Regan Sand

2006.06.04



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Hertel Oil Co
 704 E 12th St
 Hays KS 67601
 ATTN: Randy Kilian

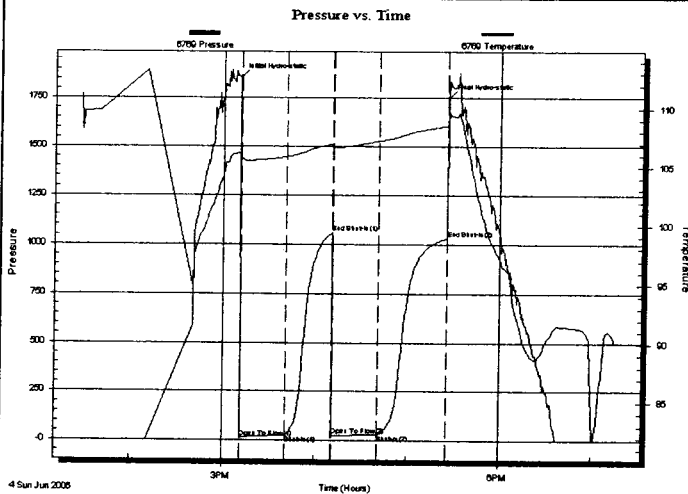
Hertel-Kraus Unit 1
27 14S 19W Ellis KS
 Job Ticket: 25056 **DST#: 2**
 Test Start: 2006.06.04 @ 13:28:29

GENERAL INFORMATION:

Formation: **Arb. - Regan Sand**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 15:11:42
 Time Test Ended: 19:14:57
 Test Type: Conventional Bottom Hole
 Tester: Brian Fairbank
 Unit No: 24
 Interval: **3758.00 ft (KB) To 3801.00 ft (KB) (TVD)**
 Reference Elevations: 2185.00 ft (KB)
 Total Depth: 3801.00 ft (KB) (TVD) 2179.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Good KB to GRVCF: 6.00 ft

Serial #: 6769 Inside
 Press@RunDepth: 30.17 psig @ 3761.01 ft (KB) Capacity: 7000.00 psig
 Start Date: 2006.06.04 End Date: 2006.06.04 Last Calib.: 2006.06.04
 Start Time: 13:28:29 End Time: 19:14:57 Time On Btm: 2006.06.04 @ 15:11:27
 Time Off Btm: 2006.06.04 @ 17:26:12

TEST COMMENT: IFP Weak blow throughout sur - 1/4"
 ISI No blow back
 FFP Weak blow throughout sur - 1"
 FSI No blow back



PRESSURE SUMMARY

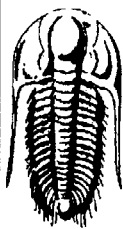
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1853.52	106.25	Initial Hydro-static
1	13.93	105.82	Open To Flow (1)
30	26.75	105.93	Shut-In(1)
60	1055.38	107.00	End Shut-In(1)
61	26.58	106.76	Open To Flow(2)
90	30.17	107.26	Shut-In(2)
135	1029.56	108.58	End Shut-In(2)
135	1749.68	108.93	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	HOCM 30%O 70%M	0.15
15.00	G FREE OIL 10%G 85%O 5%M	0.21

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Hertel Oil Co

Hertel-Kraus Unit 1

704 E 12th St
Hays KS 67601

27 14S 19W Ellis KS

Job Ticket: 25056

DST#: 2

ATTN: Randy Kilian

Test Start: 2006.06.04 @ 13:28:29

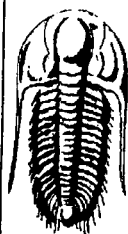
Tool Information

Drill Pipe:	Length: 3730.00 ft	Diameter: 3.80 inches	Volume: 52.32 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: 25000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 55000.00 lb
			<u>Total Volume: 52.47 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	22.00 ft			String Weight: Initial 43000.00 lb
Depth to Top Packer:	3758.00 ft			Final 43000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	43.02 ft			
Tool Length:	63.02 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
S.I. Tool	5.00			3743.00	
HYD S.I. Tool	5.00			3748.00	
Packer	5.00			3753.00	20.00 Bottom Of Top Packer
Packer	5.00			3758.00	
Stubb	1.00			3759.00	
Perforations	1.00			3760.00	
C.O. Sub	1.00			3761.00	
Recorder	0.01	6769	Inside	3761.01	
Blank Spacing	31.00			3792.01	
C.O. Sub	1.00			3793.01	
Perforations	5.00			3798.01	
Recorder	0.01	13548	Outside	3798.02	
Bullnose	3.00			3801.02	43.02 Bottom Packers & Anchor

Total Tool Length: 63.02



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DRILL STEM TEST REPORT

FLUID SUMMARY

Hertel Oil Co
704 E 12th St
Hays KS 67601

Hertel-Kraus Unit 1

27 14S 19W Ellis KS

Job Ticket: 25056

DST#: 2

ATTN: Randy Kilian

Test Start: 2006.06.04 @ 13:28:29

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 51.00 sec/qt
Water Loss: 8.73 in³
Resistivity: ohm.m
Salinity: 4000.00 ppm
Filter Cake: inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psig

Oil API: 31 deg API
Water Salinity: ppm

Recovery Information

Recovery Table

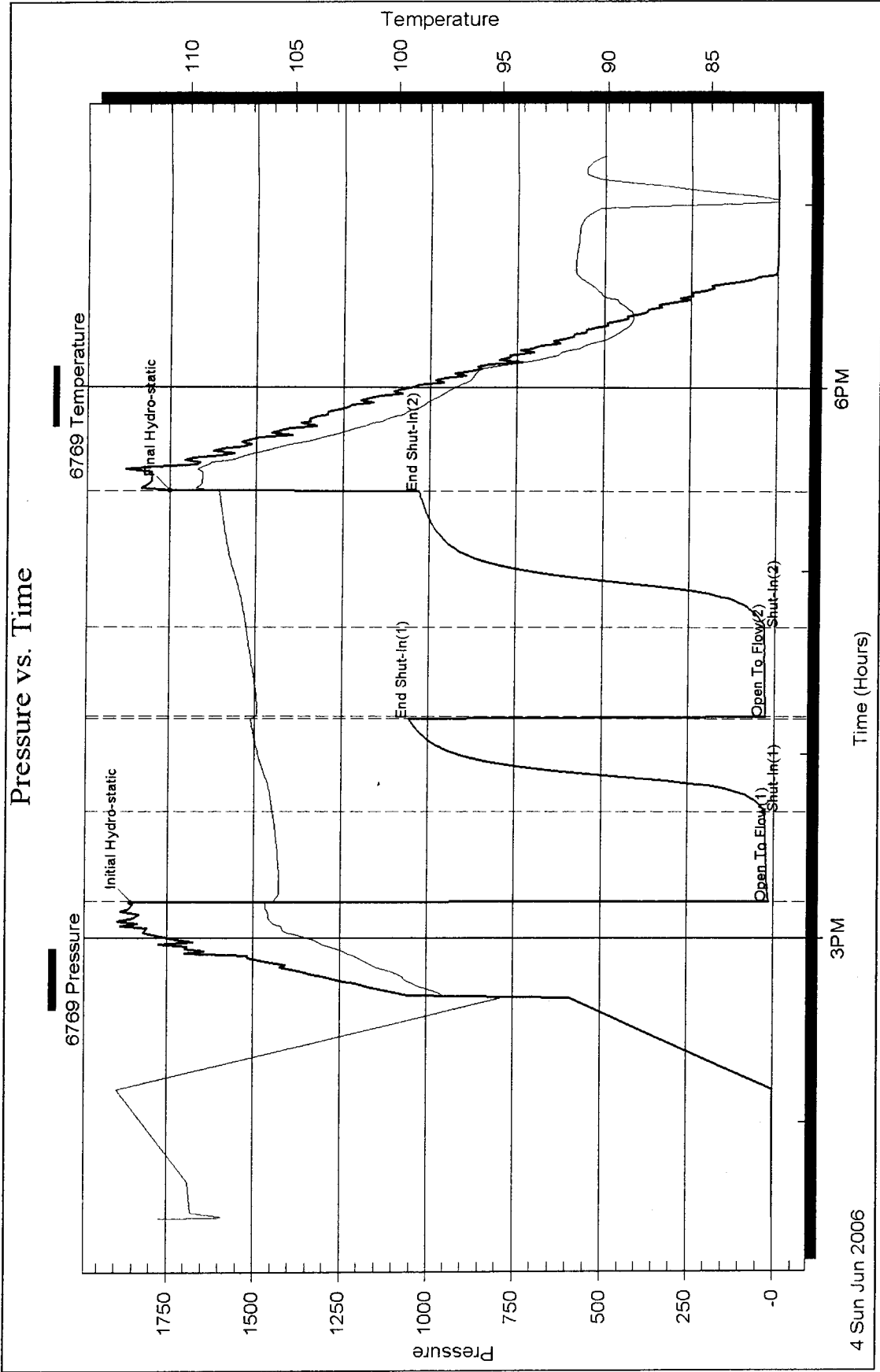
Length ft	Description	Volume bbl
30.00	HOCM 30%O 70%M	0.148
15.00	G FREE OIL 10%G 85%O 5%M	0.210

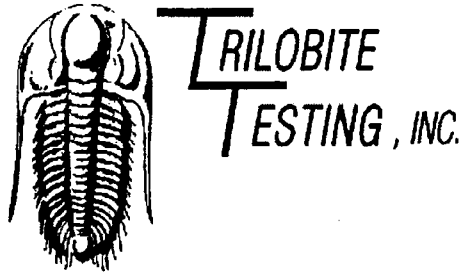
Total Length: 45.00 ft Total Volume: 0.358 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments: 15' GIP





DRILL STEM TEST REPORT

Prepared For: **Hertel Oil Co**

704 E 12th St
Hays KS 67601

ATTN: Randy Kilian

27 14S 19W Ellis KS

Hertel-Kraus Unit 1

Start Date: 2006.06.04 @ 12:17:50

End Date: 2006.06.04 @ 18:44:18

Job Ticket #: 25057 DST #: 3

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Hertel Oil Co

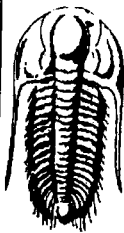
Hertel-Kraus Unit 1

27 14S 19W Ellis KS

DST # 3

Regan Sand

2006.06.04



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Hertel Oil Co

704 E 12th St
Hays KS 67601

ATTN: Randy Kilian

Hertel-Kraus Unit 1

27 14S 19W Ellis KS

Job Ticket: 25057

DST#: 3

Test Start: 2006.06.04 @ 12:17:50

GENERAL INFORMATION:

Formation: **Regan Sand**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:04:18

Time Test Ended: 18:44:18

Test Type: Conventional Bottom Hole

Tester: Brian Fairbank

Unit No: 24

Interval: **3800.00 ft (KB) To 3810.00 ft (KB) (TVD)**

Total Depth: 3810.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2185.00 ft (KB)

2179.00 ft (CF)

KB to GR/CF: 6.00 ft

Serial #: 6769 Inside

Press@RunDepth: 29.76 psig @ 3802.01 ft (KB)

Start Date: 2006.06.04

End Date:

2006.06.04

Start Time: 12:17:50

End Time:

18:44:18

Capacity: 7000.00 psig

Last Calib.: 2006.06.05

Time On Btm: 2006.06.04 @ 14:04:03

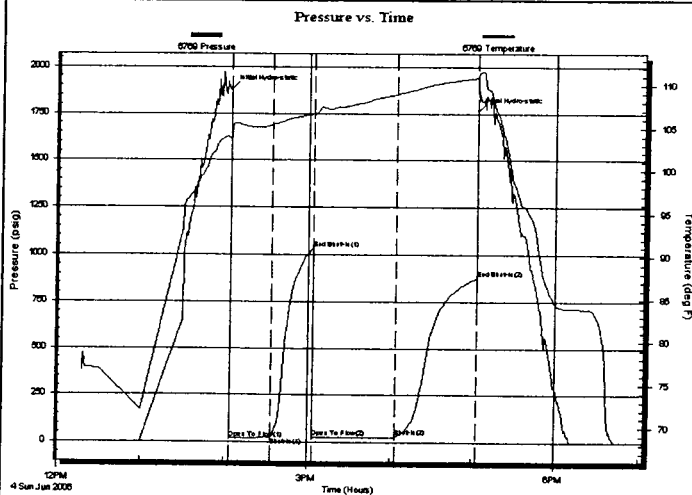
Time Off Btm: 2006.06.04 @ 17:03:48

TEST COMMENT: IFP Weak blow throughout 1/2 in - 1 in

ISI No blow back

FFP No blow 30 min weak sur blow

FSI No blow back



PRESSURE SUMMARY

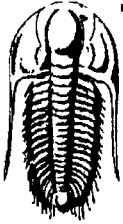
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1878.93	103.79	Initial Hydro-static
1	18.16	102.58	Open To Flow (1)
30	25.75	105.41	Shut-In (1)
60	1032.94	106.67	End Shut-In (1)
60	26.65	106.50	Open To Flow (2)
120	29.76	108.96	Shut-In (2)
180	878.05	110.92	End Shut-In (2)
180	1763.33	111.12	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	SOCM 5%O 95%M	0.10
25.00	FREE OIL 95%O 5%M	0.26

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Hertel Oil Co
704 E 12th St
Hays KS 67601

Hertel-Kraus Unit 1

27 14S 19W Ellis KS

Job Ticket: 25057

DST#: 3

ATTN: Randy Kilian

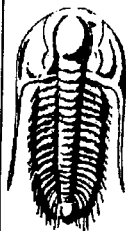
Test Start: 2006.06.04 @ 12:17:50

Tool Information

Drill Pipe:	Length: 3758.00 ft	Diameter: 3.80 inches	Volume: 52.71 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: 25000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 52.86 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial 43000.00 lb
Depth to Top Packer:	3800.00 ft			Final 43000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	10.02 ft			
Tool Length:	30.02 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
S.I. Tool	5.00			3785.00	
HYD S.I. Tool	5.00			3790.00	
Packer	5.00			3795.00	20.00 Bottom Of Top Packer
Packer	5.00			3800.00	
Stubb	1.00			3801.00	
Perforations	1.00			3802.00	
Recorder	0.01	6769	Inside	3802.01	
Perforations	5.00			3807.01	
Recorder	0.01	13548	Outside	3807.02	
Bullnose	3.00			3810.02	10.02 Bottom Packers & Anchor
Total Tool Length:	30.02				



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TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Hertel Oil Co
704 E 12th St
Hays KS 67601

Hertel-Kraus Unit 1
27 14S 19W Ellis KS
Job Ticket: 25057 **DST#: 3**
Test Start: 2006.06.04 @ 12:17:50

ATTN: Randy Kilian

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 27 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: ppm
Viscosity: 51.00 sec/qt	Cushion Volume: bbl	
Water Loss: 8.76 in ³	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
20.00	SOCM 5%O 95%M	0.098
25.00	FREE OIL 95%O 5%M	0.260

Total Length: 45.00 ft Total Volume: 0.358 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:

Serial #: 6769

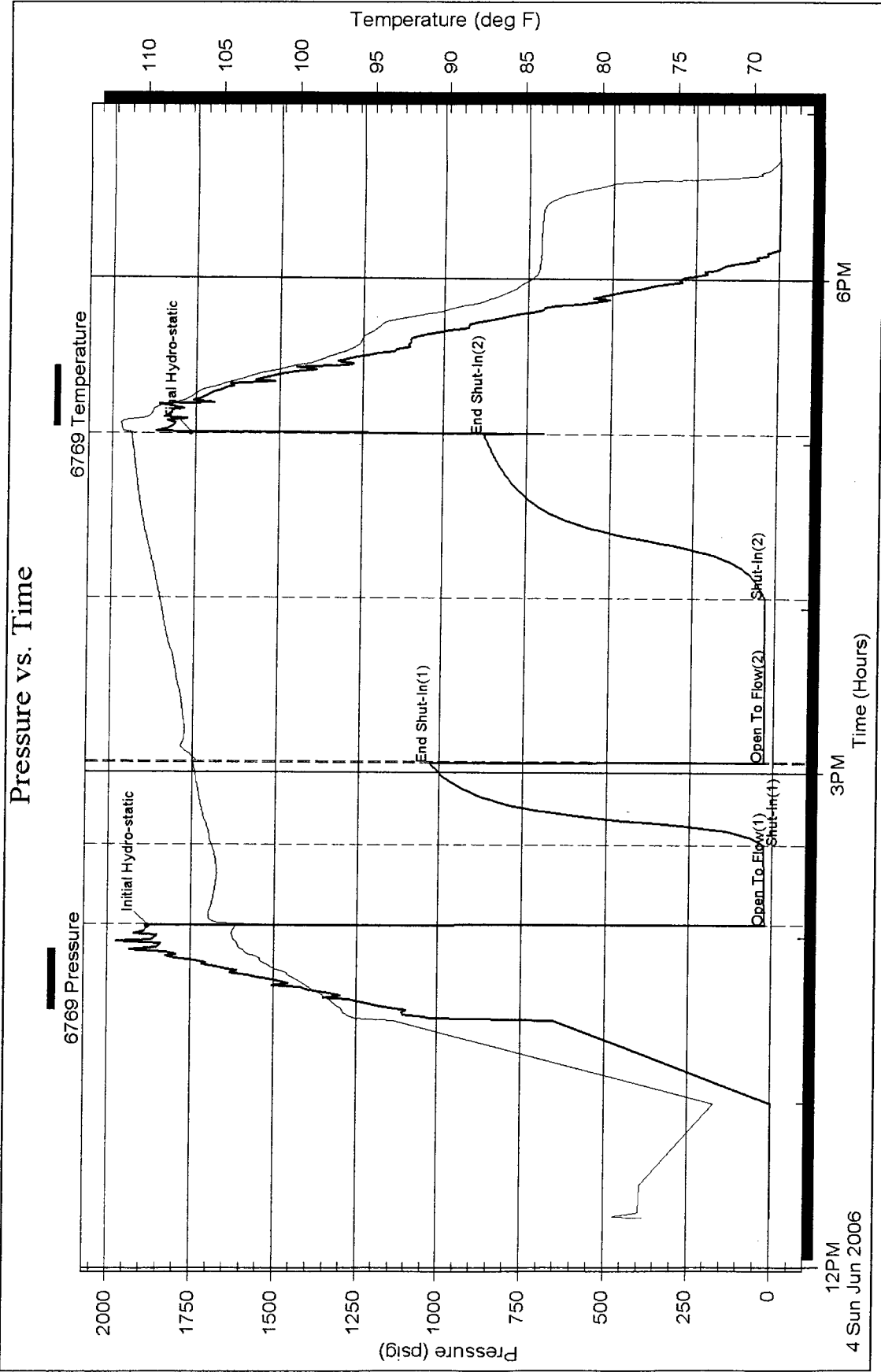
Inside

Hertel Oil Co

27 14S 19W Blis KS

DST Test Number: 3

Pressure vs. Time

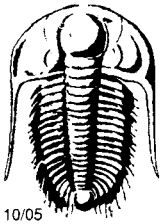


12PM

3PM

6PM

4 Sun Jun 2006



TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

25055

8003

Test Ticket

Well Name & No. Hertel Kreis Unit #1 Test No. 1 Date 6-3-06
 Company Hertel O.1 Zone Tested LKC "H-K"
 Address 704 E. 12th St Hays, Ks 67601 Elevation 2185 KB 2179 GL
 Co. Rep / Geo. Randy Kistien Rig Disc 3
 Location: Sec. 27 Twp. 14^s Rge. 19^w Co. Ellis State Ks
 Comment: _____ Release date / time: _____

Interval Tested 3596-3690 Initial Str Wt./Lbs. 43,000 Unseated Str Wt./Lbs. 44,000
 Anchor Length 94 Wt. Set Lbs. 25,000 Wt. Pulled Loose/Lbs. 52,000
 Top Packer Depth 3591 Tool Weight 2500
 Bottom Packer Depth 3596 Hole Size 7 7/8" - Rubber Size 6 3/4" -
 Total Depth 3690 Wt. Pipe Run - Drill Collar Run 30
 Mud Wt. 9.2 LCM _____ Vis. 58 WL 8.8 Drill Pipe Size 4 1/2 X 4 Ft. Run 3575

Blow Description IFP - BOB 18 min
IST - 1" blow back
FFP - BOB 5 min
FST - 4" blow back

Recovery - Total Feet	GIP	Ft. in DC	Ft. in DP
<u>215</u>	<u>600</u>	<u>30</u>	<u>185</u>
Rec. <u>60</u>	Feet of <u>G HOLM</u>	<u>50</u> %gas	<u>40</u> %oil
Rec. <u>30</u>	Feet of <u>GWSOLM</u>	<u>20</u> %gas	<u>5</u> %oil
Rec. <u>120</u>	Feet of <u>MW</u>	<u>75</u> %water	<u>25</u> %mud
Rec. <u>5</u>	Feet of <u>mud</u>	<u>100</u> %water	<u>0</u> %mud
BHT <u>111</u>	*F Gravity _____	*API D @ _____	*F Corrected Gravity _____
RW <u>1,264</u>	@ <u>69</u> *F	Chlorides <u>26,000</u> ppm	Recovery _____ Chlorides <u>4000</u> ppm System

	AK-1	Alpine	Recorder No.	Test
(A) Initial Hydrostatic Mud		<u>1744</u> PSI	<u>6769</u>	<input checked="" type="checkbox"/> <u>1000.</u>
(B) First Initial Flow Pressure		<u>25</u> PSI	(depth) <u>3604</u>	Jars _____
(C) First Final Flow Pressure		<u>81</u> PSI	Recorder No. <u>13548</u>	Safety Jt. _____
(D) Initial Shut-In Pressure		<u>831</u> PSI	(depth) <u>3687</u>	Circ Sub _____
(E) Second Initial Flow Pressure		<u>75</u> PSI	Recorder No. _____	Sampler _____
(F) Second Final Flow Pressure		<u>146</u> PSI	(depth) _____	Straddle _____
(G) Final Shut-In Pressure		<u>865</u> PSI	Initial Opening <u>30</u>	Ext. Packer _____
(Q) Final Hydrostatic Mud		<u>1702</u> PSI	Initial Shut-In <u>45</u>	Shale Packer _____

TRILOBITE TESTING INC. SHALL NOT BE LIABLE FOR DAMAGE 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 OPINIONS 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 _____

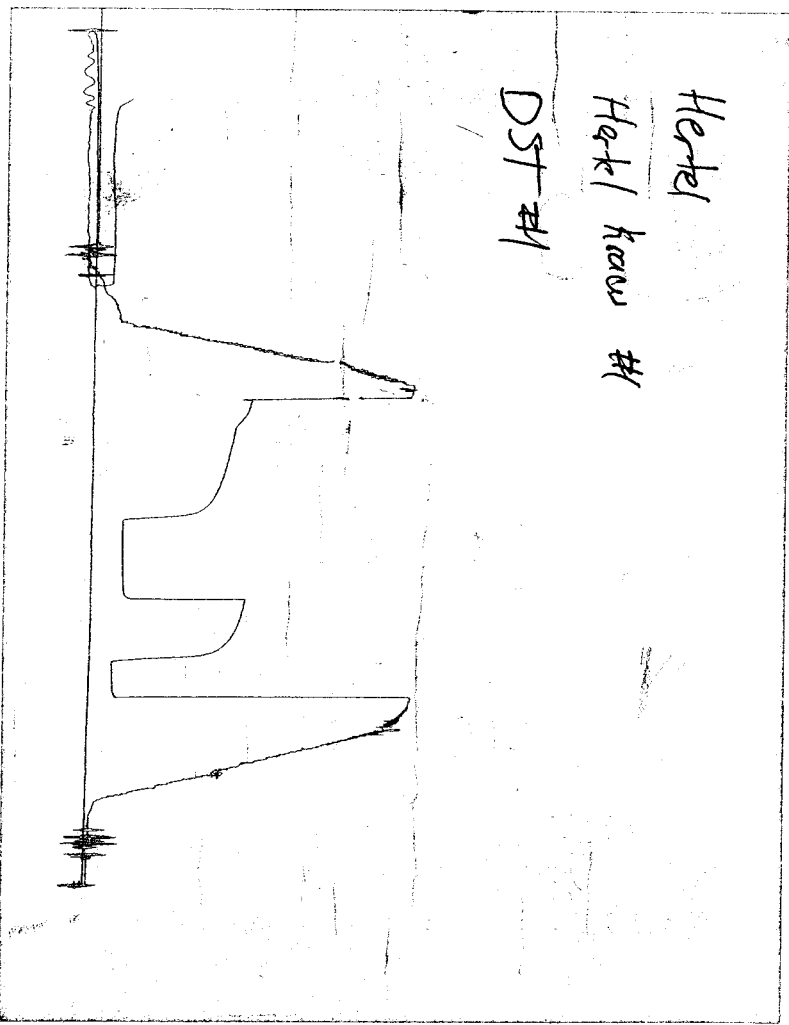
Our Representative Brian Fairbank (Thanks)

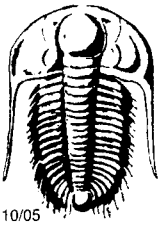
T-On Location 1627
 T-Started 1727
 T-Open 1943
 T-Pulled 2328
 T-Out 0128

Mileage 40.00 32 RT
 Sub Total: 1040
 Std. By 1 50.00
 Acc. Chg: _____
 Other: _____
 Total: 1090.

CHART PAGE

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





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

25056

Test Ticket

Well Name & No. Hertel Kraus Unit #1 Test No. 2 Date 6-4-06
 Company Hertel O.1 Zone Tested Ans - Regan Sand
 Address 704 E. 12th St. Hays, K 67601 Elevation 2185 KB 2179 GL
 Co. Rep / Geo. Randy K. Iwan Rig Disc 3
 Location: Sec. 27 Twp. 14^s Rge. 19^w Co. Ellis State K
 Comment: _____ Release date / time: _____

Interval Tested 3758 - 3801 Initial Str Wt./Lbs. 43,000 Unseated Str Wt./Lbs. 43,000
 Anchor Length 43 Wt. Set Lbs. 25,000 Wt. Pulled Loose/Lbs. 55,000
 Top Packer Depth 3753 Tool Weight 2500
 Bottom Packer Depth 3758 Hole Size 7 7/8" - Rubber Size 6 3/4" -
 Total Depth 3801 Wt. Pipe Run - Drill Collar Run 30
 Mud Wt. 9.3 LCM _____ Vis. 51 WL 8.8 Drill Pipe Size 4 1/2 XH Ft. Run 3730
 Blow Description IFF - weak blow throughout - sur - 4
ISI - no blow back
FFP - weak blow throughout - sur - 1
FSI - no blow back

Recovery - Total Feet	GIP	Ft. in DC	Ft. in DP
<u>45</u>	<u>15</u>	<u>30</u>	<u>15</u>
Rec. <u>15</u>	Feet of <u>G Free O.1</u>	<u>10</u> %gas <u>85</u> %oil	%water <u>5</u> %mud
Rec. <u>30</u>	Feet of <u>HOCM</u>	%gas <u>30</u> %oil	%water <u>70</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>109</u>	*F Gravity <u>35</u>	*API D @ <u>100</u>	*F Corrected Gravity <u>31</u> *API
RW _____ @ _____ *F	Chlorides _____ ppm	Recovery _____	Chlorides <u>4000</u> ppm System

	AK-1	Alpine	Recorder No.	Test
(A) Initial Hydrostatic Mud	<u>1856</u>	PSI	<u>6769</u>	<input checked="" type="checkbox"/> <u>1000.</u>
(B) First Initial Flow Pressure	<u>14</u>	PSI	(depth) <u>3761</u>	Jars _____
(C) First Final Flow Pressure	<u>27</u>	PSI	Recorder No. <u>13548</u>	Safety Jt. _____
(D) Initial Shut-In Pressure	<u>1055</u>	PSI	(depth) <u>3798</u>	Circ Sub _____
(E) Second Initial Flow Pressure	<u>27</u>	PSI	Recorder No. _____	Sampler _____
(F) Second Final Flow Pressure	<u>30</u>	PSI	(depth) _____	Straddle _____
(G) Final Shut-In Pressure	<u>1030</u>	PSI	Initial Opening <u>30</u>	Ext. Packer _____
(Q) Final Hydrostatic Mud	<u>1802</u>	PSI	Initial Shut-In <u>30</u>	Shale Packer _____
			Final Flow <u>30</u>	Ruined Packer _____
			Final Shut-In <u>45</u>	Mileage <u>40⁰⁰</u> <u>32 RT</u>

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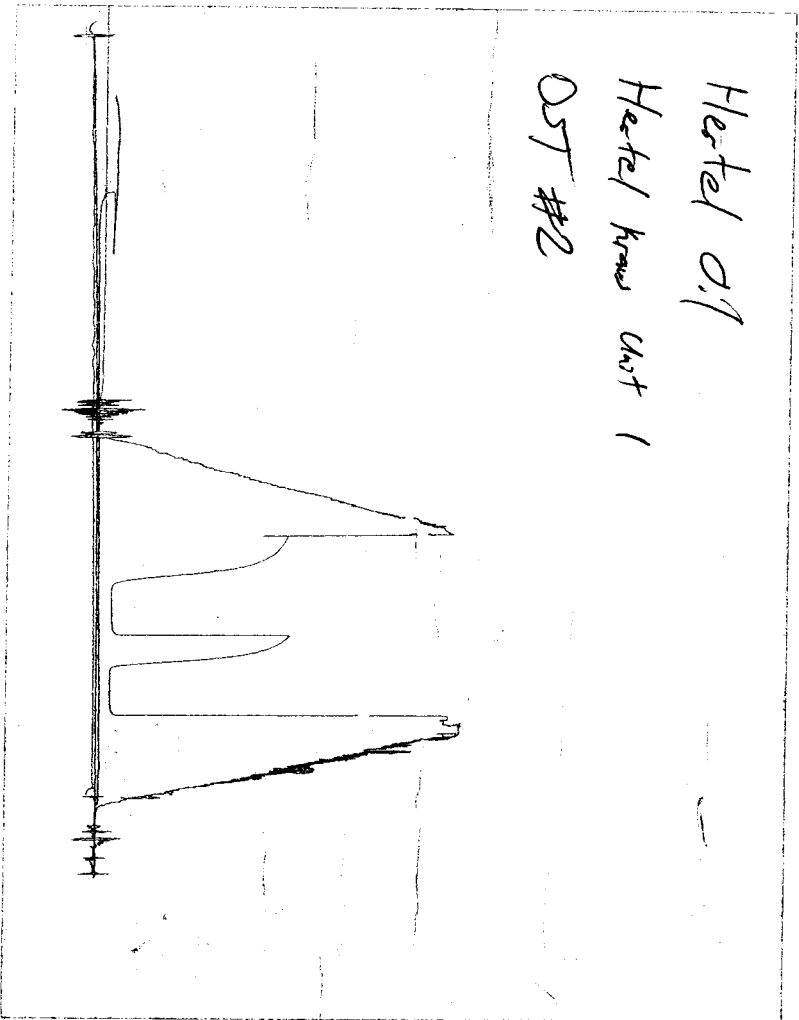
Approved By _____ T-Open 1509 Acc. Chg: _____
 Our Representative Brian Fairbank (Thinks) T-Pulled 1724 Other: _____
 T-Out 1912 Total: _____

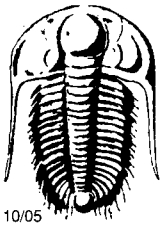
CHART PAGE
This is a photocopy of the actual AK-1 recorder chart.

Hertel 0.1

Hertel knows dist 1

DST #2





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

25057

Test Ticket

Well Name & No. Hertel Kraw Unit #1 Test No. 3 Date 6-4-06
 Company Hertel o.i. Zone Tested Regan Sand
 Address 704 E. 12th St, Hays, ks 67601 Elevation 2185 KB 2177 GL
 Co. Rep / Geo. Randy Kilzen Rig Disco 3
 Location: Sec. 27 Twp. 14^s Rge. 19^w Co. Ellis State Ks
 Comment: _____ Release date / time: _____

Interval Tested 3800-3810 Initial Str Wt./Lbs. 43,000 Unseated Str Wt./Lbs. 43,000
 Anchor Length 10 Wt. Set Lbs. 25,000 Wt. Pulled Loose/Lbs. 60,000
 Top Packer Depth 3795 Tool Weight 2500
 Bottom Packer Depth 3800 Hole Size 7 7/8" Rubber Size 6 3/4"
 Total Depth 3810 Wt. Pipe Run — Drill Collar Run 30
 Mud Wt. 9.3 LCM _____ Vis. 51 WL 8.8 Drill Pipe Size 4 1/2 XH Ft. Run 3758
 Blow Description IFP - weak blow throughout - 1/2-1
ISI - no blow back
FPP - no blow 30min - weak sur. blow
FSI - no blow back

Recovery - Total Feet 45' GIP — Ft. in DC 30 Ft. in DP 15
 Rec. 25 Feet of Free oil %gas 95 %oil _____ %water 5 %mud _____
 Rec. 20 Feet of SOCM %gas 5 %oil _____ %water 95 %mud _____
 Rec. _____ Feet of _____ %gas _____ %oil _____ %water _____ %mud _____
 Rec. _____ Feet of _____ %gas _____ %oil _____ %water _____ %mud _____
 Rec. _____ Feet of _____ %gas _____ %oil _____ %water _____ %mud _____
 BHT 111 °F Gravity 28 °API D @ 70 °F Corrected Gravity 27 °API
 RW _____ @ _____ °F Chlorides _____ ppm Recovery _____ Chlorides 4000 ppm System

(A) Initial Hydrostatic Mud	AK-1	Alpine	1855	PSI	Recorder No.	6769	Test	✓	1000
(B) First Initial Flow Pressure			18	PSI	(depth)	3802	Jars		
(C) First Final Flow Pressure			26	PSI	Recorder No.	13548	Safety Jt.		
(D) Initial Shut-In Pressure			1033	PSI	(depth)	3807	Circ Sub		
(E) Second Initial Flow Pressure			27	PSI	Recorder No.		Sampler		
(F) Second Final Flow Pressure			30	PSI	(depth)		Straddle		
(G) Final Shut-In Pressure			878	PSI	Initial Opening	30	Ext. Packer		
(Q) Final Hydrostatic Mud			1816	PSI	Initial Shut-In	30	Shale Packer		
					Final Flow	60	Ruined Packer		
					Final Shut-In	60	Mileage	✓	40.32 RT
					T-On Location	2330	Sub Total:		1040.
					T-Started	0017	Std. By		
					T-Open	0203	Acc. Chg:		
					T-Pulled	0503	Other:		
					T-Out	0643	Total:		

Approved By _____
 Our Representative Brian Fairbank (thats)

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CHART PAGE

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

Hester 0:1

Hester Kraw unit 1

DST #3

