

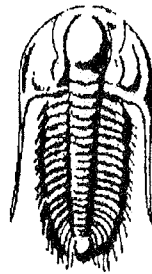
15-171-20567

1-18s-32w

RECEIVED
KANSAS CORPORATION COMMISSION

MAY 09 2002

CONSERVATION DIVISION
WICHITA, KS



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Pickrell Drilling Co. Inc.**

100 S. Main Ste #505
Wichita KS 67202-3738

ATTN: Kent Crisler

1-18S-32W Scott KS.

Koci "A" #3

Start Date: 2002.03.29 @ 12:15:23

End Date: 2002.03.29 @ 20:35:38

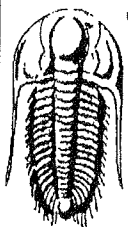
Job Ticket #: 15048

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

Pickrell Drilling Co. Inc.

100 S. Main Ste #505
Wichita KS 67202-3738

ATTN: Kent Crisler

Koci "A" #3

1-18S-32W Scott KS.

Job Ticket: 15048

DST#: 1

Test Start: 2002.03.29 @ 12:15:23

GENERAL INFORMATION:

Formation: **Marmaton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:29:08

Time Test Ended: 20:35:38

Test Type: Conventional Bottom Hole

Tester: Rod Steinbrink

Unit No: 22

Interval: **4363.00 ft (KB) To 4414.00 ft (KB) (TVD)**

Total Depth: 4414.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2971.00 ft (KB)

2966.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 3030

Inside

Press@RunDepth: 155.47 psig @ 4364.00 ft (KB)

Start Date: 2002.03.29

End Date:

2002.03.29

Start Time: 12:15:28

End Time:

20:35:37

Capacity: 7000.00 psig

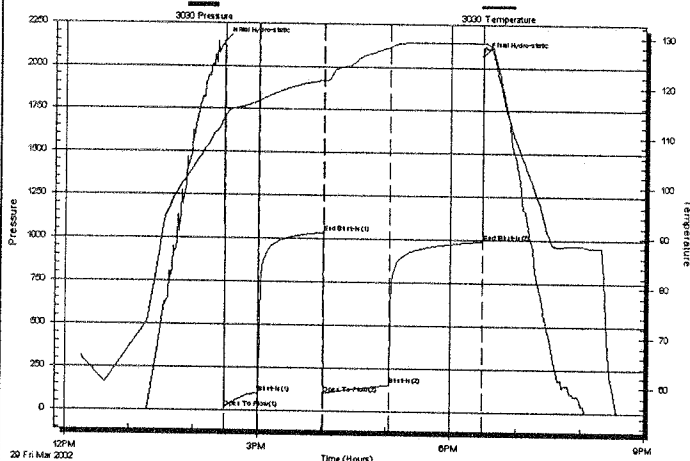
Last Calib.: 1899.12.30

Time On Btm: 2002.03.29 @ 14:28:53

Time Off Btm: 2002.03.29 @ 18:29:52

TEST COMMENT: IF; Weak blow built to 3"
IS; No return
FF; Weak return in 5 mins built to 3"
FSI; No return

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2139.61	113.91	Initial Hydro-static
1	14.22	114.01	Open To Flow (1)
33	103.22	117.21	Shut-In (1)
93	1034.83	121.31	End Shut-In (1)
93	103.26	121.32	Open To Flow (2)
155	155.47	128.08	Shut-In (2)
241	991.43	128.95	End Shut-In (2)
241	2068.95	128.96	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
70.00	GIP	0.34
20.00	FO	0.10
60.00	OWCM 5%gas 10%oil 40%w tr 45%mud	0.30
240.00	MCW w/trc-oil 80%w r 20%mud	3.09

Gas Rates

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Pickrell Drilling Co. Inc.

Koci "A" #3

100 S. Main Ste #505
Wichita KS 67202-3738

1-18S-32W Scott KS.

Job Ticket: 15048

DST#: 1

ATTN: Kent Crisler

Test Start: 2002.03.29 @ 12:15:23

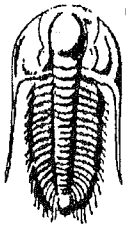
Tool Information

Drill Pipe:	Length: 4185.00 ft	Diameter: 3.80 inches	Volume: 58.70 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 180.00 ft	Diameter: 2.25 inches	Volume: 0.89 bbl	Weight to Pull Loose: 80000.00 lb
		Total Volume: 59.59 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	22.00 ft			String Weight: Initial 68000.00 lb
Depth to Top Packer:	4363.00 ft			Final 68000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	51.00 ft			
Tool Length:	71.00 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			4348.00	
HMV	5.00			4353.00	
Packer	5.00			4358.00	20.00 Bottom Of Top Packer
Packer	5.00			4363.00	
Stubb	1.00			4364.00	
Recorder	0.00	3030	Inside	4364.00	
Perforations	12.00			4376.00	
C.O. Sub	1.00			4377.00	
Anchor	31.00			4408.00	
C.O. Sub	1.00			4409.00	
Recorder	0.00	13276	Outside	4409.00	
Bullnose	5.00			4414.00	51.00 Bottom Packers & Anchor

Total Tool Length: 71.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Pickrell Drilling Co. Inc.

Koci "A" #3

100 S. Main Ste #505
Wichita KS 67202-3738

1-18S-32W Scott KS.

Job Ticket: 15048

DST#: 1

ATTN: Kent Crisler

Test Start: 2002.03.29 @ 12:15:23

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 46.00 sec/qt

Water Loss: 6.39 in³

Resistivity: ohm.m

Salinity: 1500.00 ppm

Filter Cake: inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

33 deg API

Water Salinity: 50000 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
70.00	GIP	0.344
20.00	FO	0.098
60.00	OWCM 5%gas 10%oil 40%w tr 45%mud	0.295
240.00	MCW w/trc-oil 80%w r 20%mud	3.093

Total Length: 390.00 ft Total Volume: 3.830 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW .18 @ 60 deg =

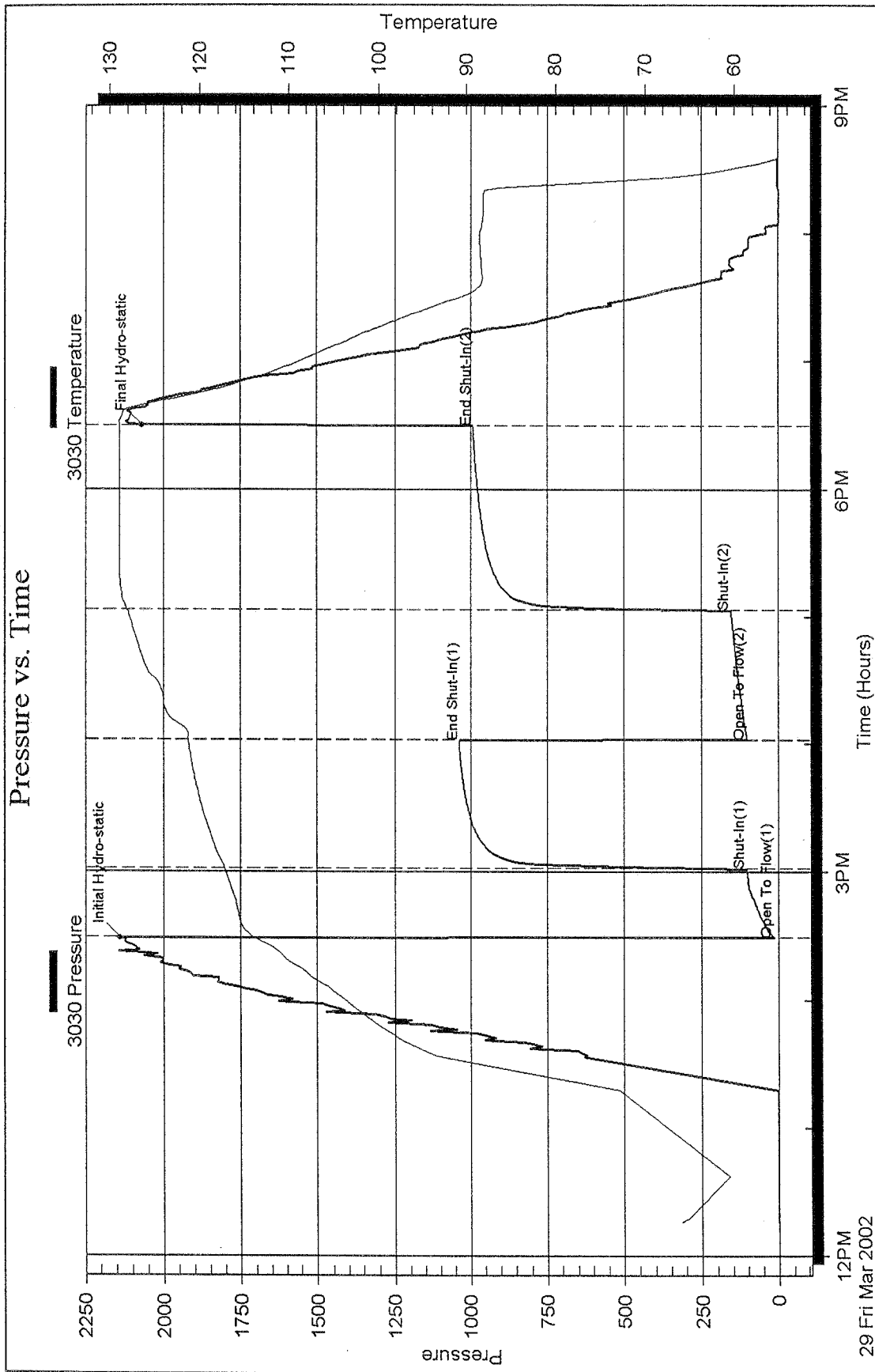
Serial #: 3030

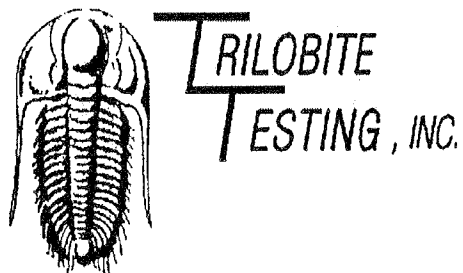
Inside

Pickrell Drilling Co. Inc.

1-18S-32W Scott KS.

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **Pickrell Drilling Co. Inc.**

100 S. Main Ste #505
Wichita KS 67202-3738

ATTN: Kent Crisler

1-18S-32W Scott KS.

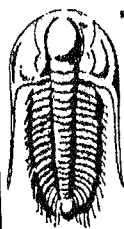
Koci "A" #3

Start Date: 2002.03.30 @ 16:20:15

End Date: 2002.03.30 @ 21:56:30

Job Ticket #: 15049 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

Pickrell Drilling Co. Inc.

100 S. Main Ste #505
Wichita KS 67202-3738

ATTN: Kent Crisler

Koci "A" #3

1-18S-32W Scott KS.

Job Ticket: 15049

DST#: 2

Test Start: 2002.03.30 @ 16:20:15

GENERAL INFORMATION:

Formation: **Cherokee**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 17:52:00
Time Test Ended: 21:56:30

Test Type: Conventional Bottom Hole
Tester: Rod Steinbrink
Unit No: 22

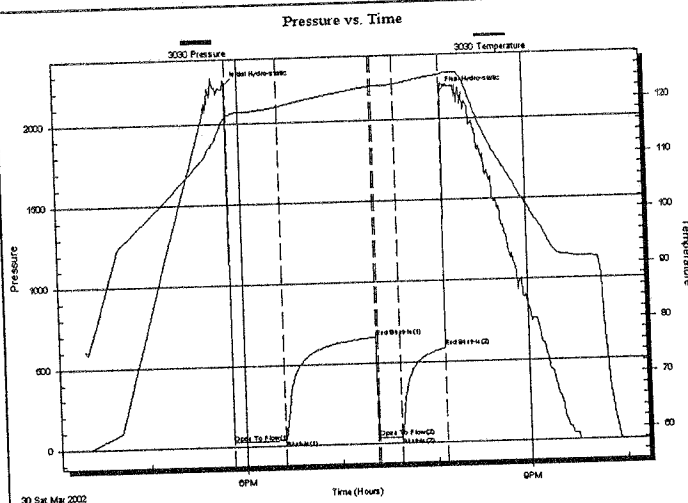
Interval: **4568.00 ft (KB) To 4600.00 ft (KB) (TVD)**
Total Depth: 4600.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2971.00 ft (KB)
2966.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: **3030** Inside
Press@RunDepth: 38.31 psig @ 4569.00 ft (KB)
Start Date: 2002.03.30 End Date:
Start Time: 16:20:20 End Time:

Capacity: 7000.00 psig
Last Calib.: 1899.12.30
Time On Btm: 2002.03.30 @ 17:51:45
Time Off Btm: 2002.03.30 @ 20:06:30

TEST COMMENT: IF; Weak surface blow died in 25 mins
FF; No return blow



PRESSURE SUMMARY

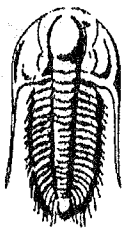
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2235.62	117.69	Initial Hydro-static
1	26.24	117.74	Open To Flow (1)
33	34.45	119.38	Shut-In(1)
91	660.14	122.68	End Shut-In(1)
92	35.33	122.70	Open To Flow (2)
106	38.31	122.92	Shut-In(2)
135	586.30	124.50	End Shut-In(2)
135	2166.47	124.54	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
150.00	WM 15%w tr 85% mud	0.74

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Pickrell Drilling Co. Inc.

100 S. Main Ste #505
Wichita KS 67202-3738

ATTN: Kent Crisler

Koci "A" #3

1-18S-32W Scott KS.

Job Ticket: 15049

DST#: 2

Test Start: 2002.03.30 @ 16:20:15

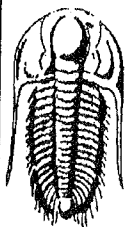
Tool Information

Drill Pipe:	Length: 4376.00 ft	Diameter: 3.80 inches	Volume: 61.38 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 180.00 ft	Diameter: 2.25 inches	Volume: 0.89 bbl	Weight to Pull Loose: 80000.00 lb
			Total Volume: 62.27 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial 70000.00 lb
Depth to Top Packer:	4568.00 ft			Final 70000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	32.00 ft			
Tool Length:	52.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
S.I. Tool	5.00			4553.00	
HMV	5.00			4558.00	
Packer	5.00			4563.00	20.00 Bottom Of Top Packer
Packer	5.00			4568.00	
Stubb	1.00			4569.00	
Recorder	0.00	3030	Inside	4569.00	
Perforations	26.00			4595.00	
Recorder	0.00	13276	Outside	4595.00	
Bullnose	5.00			4600.00	32.00 Bottom Packers & Anchor
Total Tool Length:	52.00				



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Pickrell Drilling Co., Inc.

Koci "A" #3

100 S. Main Ste #505
Wichita KS 67202-3738

1-18S-32W Scott KS.

Job Ticket: 15049

DST#: 2

ATTN: Kent Crisler

Test Start: 2002.03.30 @ 16:20:15

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 46.00 sec/qt

Water Loss: 8.00 in³

Resistivity: ohm.m

Salinity: 1500.00 ppm

Filter Cake: inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

Water Salinity:

deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
150.00	WM 15%w tr 85%mud	0.738

Total Length: 150.00 ft

Total Volume: 0.738 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

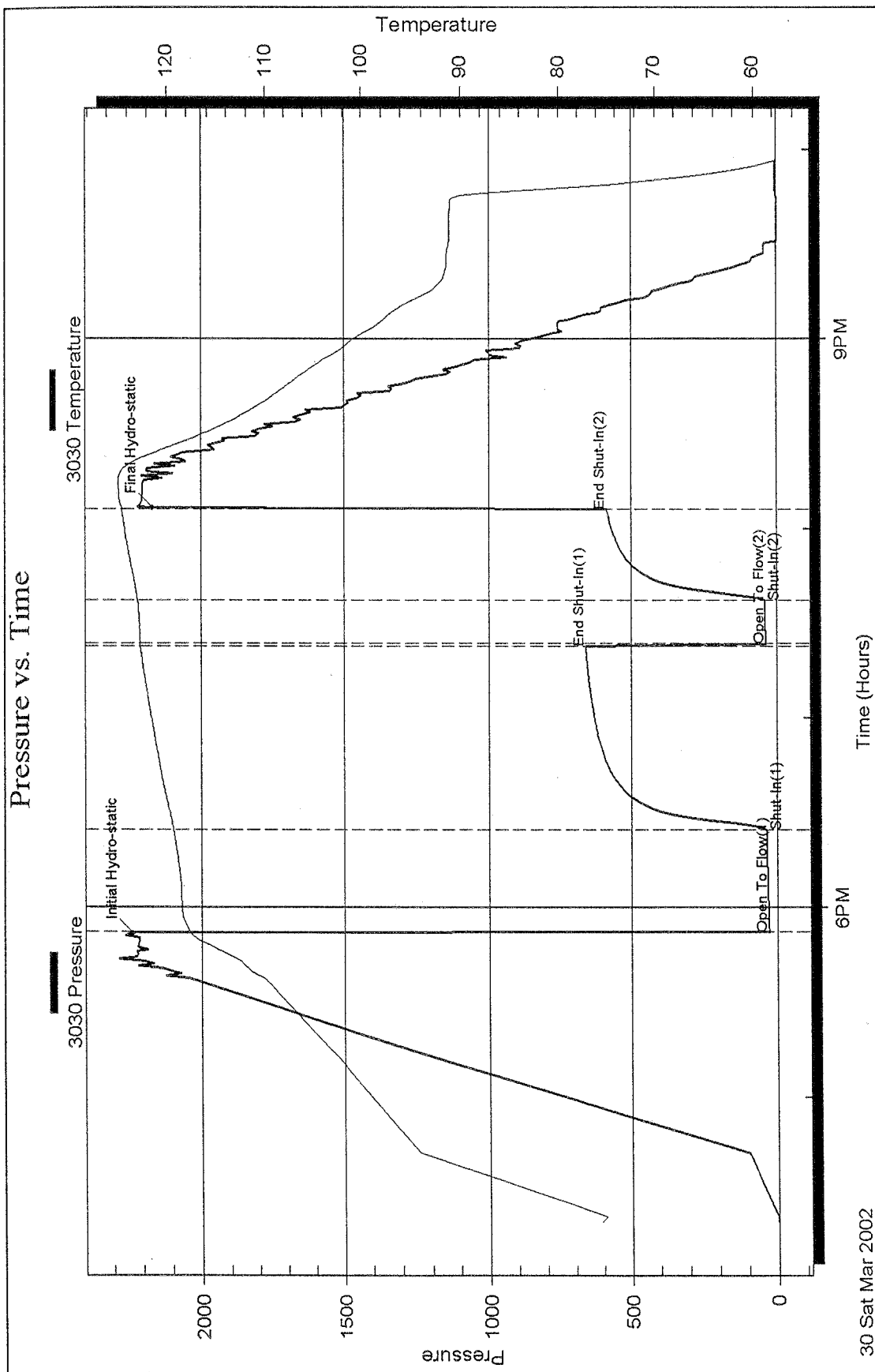
DST Test Number: 2

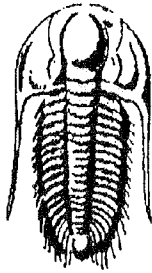
1-18S-32W Scott KS.

Fickrell Drilling Co. Inc.

Inside

Serial #: 3030





TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Pickrell Drilling Co. Inc.**

100 S. Main Ste #505
Wichita KS 67202-3738

ATTN: Kent Crisler

1-18S-32W Scott KS.

Koci "A" #3

Start Date: 2002.03.31 @ 19:43:33

End Date: 2002.04.01 @ 02:28:48

Job Ticket #: 15050 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Pickrell Drilling Co. Inc.

100 S. Main Ste #505
Wichita KS 67202-3738

ATTN: Kent Crisler

Koci "A" #3

1-18S-32W Scott KS.

Job Ticket: 15050

DST#: 3

Test Start: 2002.03.31 @ 19:43:33

GENERAL INFORMATION:

Formation: **Mississippian**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:18:33

Time Test Ended: 02:28:48

Interval: **4653.00 ft (KB) To 4700.00 ft (KB) (TVD)**

Total Depth: **4730.00 ft (KB) (TVD)**

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

Test Type: Conventional Bottom Hole

Tester: Rod Steinbrink

Unit No: 22

Reference Elevations: 2971.00 ft (KB)

2966.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 3030

Inside

Press@RunDepth: 43.08 psig @ 4654.00 ft (KB)

Start Date: 2002.03.31

End Date:

2002.04.01

Start Time: 19:43:38

End Time:

02:28:47

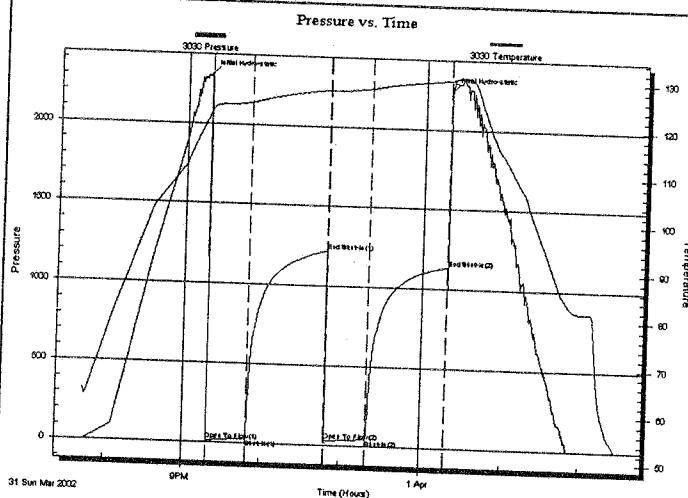
Capacity: 7000.00 psig

Last Calib.: 1899.12.30

Time On Btm: 2002.03.31 @ 21:18:03

Time Off Btm: 2002.04.01 @ 00:18:17

TEST COMMENT: IF: Weak blow built to 1/2"
FF: No retrun blow



PRESSURE SUMMARY

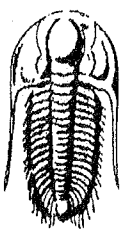
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2310.90	122.07	Initial Hydro-static
1	12.58	122.31	Open To Flow (1)
32	27.80	124.46	Shut-In(1)
91	1220.72	127.48	End Shut-In(1)
92	29.16	127.48	Open To Flow (2)
123	43.08	128.00	Shut-In(2)
180	1136.07	130.09	End Shut-In(2)
181	2243.89	130.10	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	MW 80%w tr 20% mud	0.30

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Pickrell Drilling Co. Inc.

Koci "A" #3

100 S. Main Ste #505
Wichita KS 67202-3738

1-18S-32W Scott KS.

Job Ticket: 15050

DST#: 3

ATTN: Kent Crisler

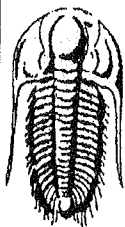
Test Start: 2002.03.31 @ 19:43:33

Tool Information

Drill Pipe:	Length: 4525.00 ft	Diameter: 3.80 inches	Volume: 63.47 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 75000.00 lb
			Total Volume: 64.06 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial 66000.00 lb
Depth to Top Packer:	4653.00 ft			Final 66000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	78.00 ft			
Tool Length:	98.00 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			4638.00	
HMV	5.00			4643.00	
Packer	5.00			4648.00	20.00 Bottom Of Top Packer
Packer	5.00			4653.00	
Stubb	1.00			4654.00	
Recorder	0.00	3030	Inside	4654.00	
Perforations	2.00			4656.00	
C.O. Sub	1.00			4657.00	
Anchor	31.00			4688.00	
C.O. Sub	1.00			4689.00	
Recorder	0.00	13371	Outside	4689.00	
Perforations	6.00			4695.00	
Blank Off Sub	1.00			4696.00	78.00 Tool Interval
Packer	5.00			4701.00	
Stubb	1.00			4702.00	
Perforations	24.00			4726.00	
Recorder	0.00	13276	Below	4726.00	
Bullnose	5.00			4731.00	1000097.00 Bottom Packers & Anchor

Total Tool Length: 98.00



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Pickrell Drilling Co. Inc.

Koci "A" #3

100 S. Main Ste #505
Wichita KS 67202-3738

1-18S-32W Scott KS.

Job Ticket: 15050

DST#: 3

ATTN: Kent Crisler

Test Start: 2002.03.31 @ 19:43:33

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:

42000 ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	MW 80%w tr 20%mud	0.295

Total Length: 60.00 ft Total Volume: 0.295 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW .16 @ 80 deg =

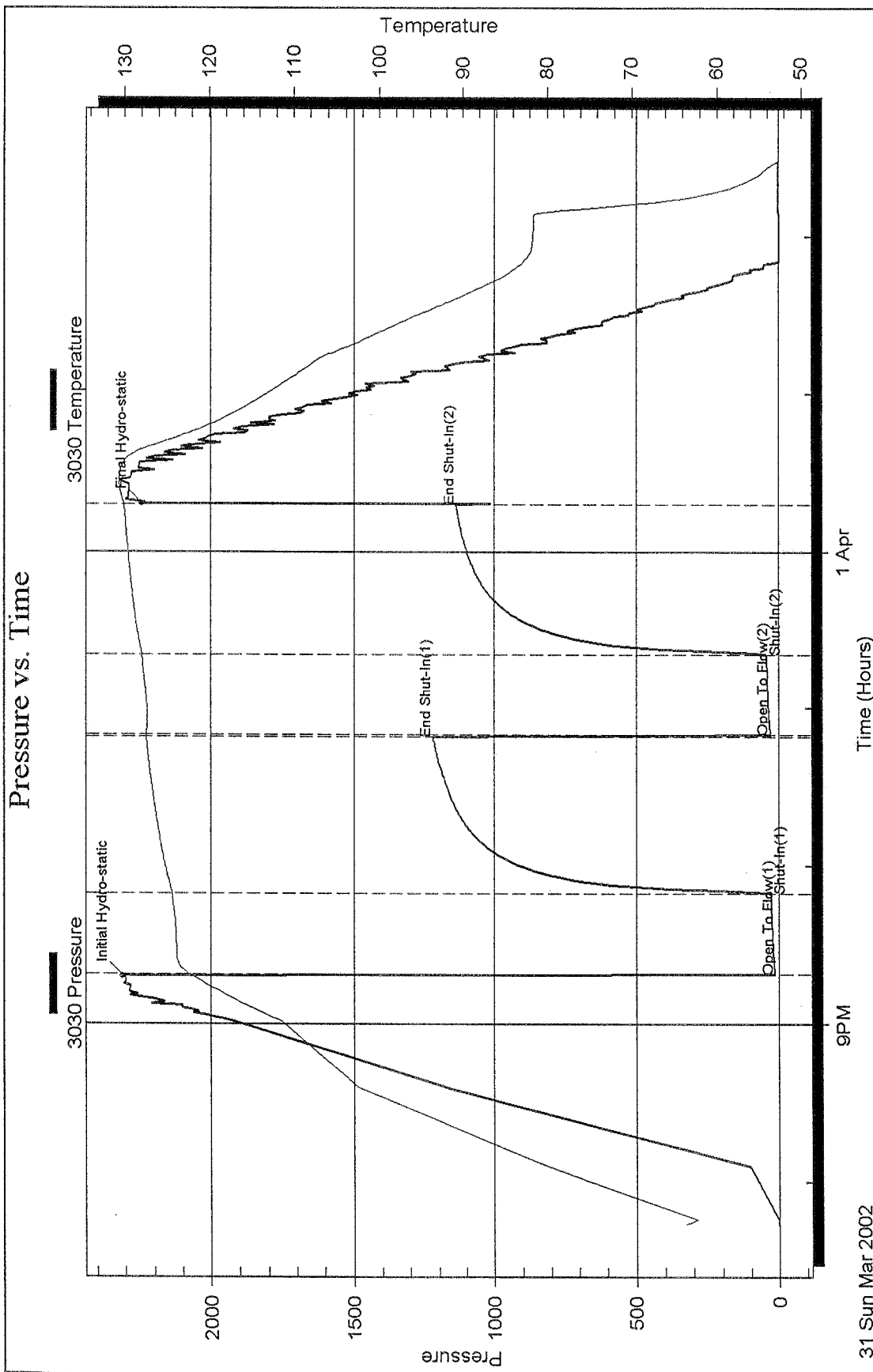
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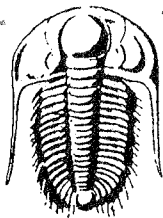
Inside

Pickrell Drilling Co. Inc.

1-18S-32W Scott KS.

DST Test Number: 3





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 15048

Test Ticket

Well Name & No.	Koci 'A' #3	Test No.	1	Date	3-29-02
Company	Pickrell Drilling Company Inc.	Zone Tested	Marmaton		
Address	100 S Main Ste 505 Wichita, KS 67202-3738	Elevation	2971	KB	2966 GL
Co. Rep / Geo.	Kent Crisler	Cont.	Pickrell #1	Est. Ft. of Pay	Por. %
Location: Sec.	1	Twp.	18 ^s	Rge.	32 ^w Co. Scott State KS
No. of Copies	Distribution Sheet (Y, N)	Turnkey (Y, N)	Evaluation (Y, N)		

Interval Tested	4363 - 4414'	Initial Str Wt./Lbs.	68,000	Unseated Str Wt./Lbs.	68,000
Anchor Length	51'	Wt. Set Lbs.	30,000	Wt. Pulled Loose/Lbs.	38,000
Top Packer Depth	4358	Tool Weight	2,000		
Bottom Packer Depth	4363	Hole Size — 7 7/8"	Rubber Size — 6 3/4"		
Total Depth	4414	Wt. Pipe Run	—	Drill Collar Run	180'
Mud Wt. 9.3 LCM	Vis. 46 WL 6.4	Drill Pipe Size	4 1/2" XH	Ft. Run	4185'
Blow Description	1F: Weak blow built to 3"				

1S1: No return
FF: Weak return in 5 mins built to 3"
FS1: No return

Recovery — Total Feet	320'	GIP	70'	Ft. in DC	180'	Ft. in DP	140'
Rec. 20'	Feet Of FO	%gas	%oil	%water	%mud		
Rec.	Feet Of	%gas	%oil	%water	%mud		
Rec. 60'	Feet Of OWCM	5 %gas	10 %oil	40 %water	45 %mud		
Rec.	Feet Of	%gas	%oil	%water	%mud		
Rec. 240'	Feet Of MCW w/ trc oil	%gas trc	%oil	80 %water	20 %mud		
BHT 128°	°F Gravity 34	°API D@ 70°	°F Corrected Gravity 33	°API			
RW -18 @ 60°	°F Chlorides 50,000	ppm Recovery	Chlorides 1500	ppm System			

	AK-1	Alpine		
(A) Initial Hydrostatic Mud	2140	PSI Recorder No.	3030	T-On Location 1130
(B) First Initial Flow Pressure	14	PSI (depth)	4364	T-Started 1215
(C) First Final Flow Pressure	102	PSI Recorder No.	13276	T-Open 1429
(D) Initial Shut-In Pressure	1037	PSI (depth)	4409	T-Pulled 1829
(E) Second Initial Flow Pressure	103	PSI Recorder No.		T-Out 2035
(F) Second Final Flow Pressure	155	PSI (depth)		T-Off Location 2130
(G) Final Shut-in Pressure	991	PSI Initial Opening	30	Test
(Q) Final Hydrostatic Mud	2115	PSI Initial Shut-in	60	Jars

Final Flow	60	Safety Joint
Final Shut-in	90	Straddle

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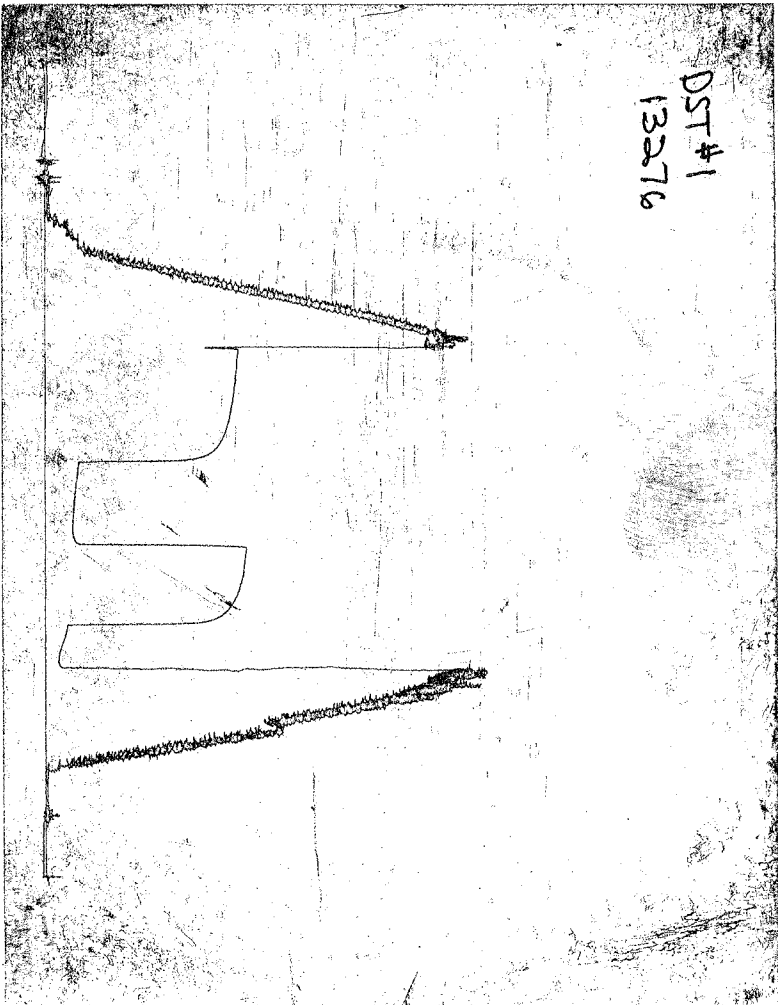
Approved By Kent Crisler

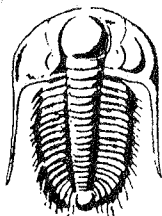
Our Representative Rod Steinbrink

Circ. Sub	X	N/C
Sampler		
Extra Packer		
Elec. Rec.	X	
Mileage	8	
Other		
TOTAL PRICE \$		

CHART PAGE

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





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 15049

Test Ticket

Well Name & No. <u>Koci 'A' #3</u>	Test No. <u>2</u>	Date <u>3-30-02</u>
Company <u>Pickrell Drilling Company Inc.</u>	Zone Tested <u>Cherokee</u>	
Address <u>100 S. Main Ste 505 Wichita, KS. 67202-3738</u>		Elevation <u>2971</u> KB <u>2966</u> GL
Co. Rep / Geo. <u>Kent Crisler</u>	Cont. <u>Pickrell #1</u>	Est. Ft. of Pay <u> </u> Por. <u> </u> %
Location: Sec. <u>1</u>	Twp. <u>18^S</u>	Rge. <u>32^W</u> Co. <u>Scott</u> State <u>KS.</u>
No. of Copies <u> </u>	Distribution Sheet (Y, N) <u> </u>	Turnkey (Y, N) <u> </u> Evaluation (Y, N) <u> </u>

Interval Tested <u>4568 - 4600</u>	Initial Str Wt./Lbs. <u>70,000</u>	Unseated Str Wt./Lbs. <u>70,000</u>
Anchor Length <u>32'</u>	Wt. Set Lbs. <u>30,000</u>	Wt. Pulled Loose/Lbs. <u>80,000</u>
Top Packer Depth <u>4563</u>	Tool Weight <u>1,800</u>	
Bottom Packer Depth <u>4568</u>	Hole Size — <u>7 7/8"</u>	Rubber Size — <u>6 3/4"</u>
Total Depth <u>4600</u>	Wt. Pipe Run <u> </u>	Drill Collar Run <u>180'</u>
Mud Wt. <u>9.3</u> LCM <u> </u> Vis. <u>45</u> WL <u>8.0</u>	Drill Pipe Size <u>4 1/2" XH</u>	Ft. Run <u>4376'</u>
Blow Description <u>IF: Weak surface blow died in 25 mins -</u>		

FF: No return blow

Recovery — Total Feet <u>150'</u>	GIP <u> </u>	Ft. in DC <u>150'</u>	Ft. in DP <u> </u>
Rec. <u> </u> Feet Of <u> </u>	%gas <u> </u> %oil <u> </u> %water <u> </u> %mud <u> </u>		
Rec. <u> </u> Feet Of <u> </u>	%gas <u> </u> %oil <u> </u> %water <u> </u> %mud <u> </u>		
Rec. <u>150'</u> Feet Of <u>WM</u>	%gas <u> </u> %oil <u>15</u> %water <u>85</u> %mud <u> </u>		
Rec. <u> </u> Feet Of <u> </u>	%gas <u> </u> %oil <u> </u> %water <u> </u> %mud <u> </u>		
Rec. <u> </u> Feet Of <u> </u>	%gas <u> </u> %oil <u> </u> %water <u> </u> %mud <u> </u>		
BHT <u>124°</u> °F Gravity <u> </u>	°API D@ <u> </u>	°F Corrected Gravity <u> </u>	°API <u> </u>
RW <u> </u> @ <u> </u> °F	Chlorides <u> </u> ppm Recovery	Chlorides <u>1,500</u> ppm System	

	AK-1	Alpine	
(A) Initial Hydrostatic Mud	<u>2260</u>	PSI	Recorder No. <u>3030</u> T-On Location <u>1515</u>
(B) First Initial Flow Pressure	<u>26</u>	PSI	(depth) <u>4569</u> T-Started <u>1620</u>
(C) First Final Flow Pressure	<u>34</u>	PSI	Recorder No. <u>13276</u> T-Open <u>1752</u>
(D) Initial Shut-In Pressure	<u>660</u>	PSI	(depth) <u>4595</u> T-Pulled <u>2005</u>
(E) Second Initial Flow Pressure	<u>35</u>	PSI	Recorder No. <u> </u> T-Out <u>2156</u>
(F) Second Final Flow Pressure	<u>38</u>	PSI	(depth) <u> </u> T-Off Location <u>2230</u>
(G) Final Shut-in Pressure	<u>584</u>	PSI	Initial Opening <u>30</u> Test <u> </u>
(Q) Final Hydrostatic Mud	<u>2212</u>	PSI	Initial Shut-in <u>60</u> Jars <u> </u>
			Final Flow <u>15</u> Safety Joint <u> </u>
			Final Shut-in <u>30</u> Straddle <u> </u>

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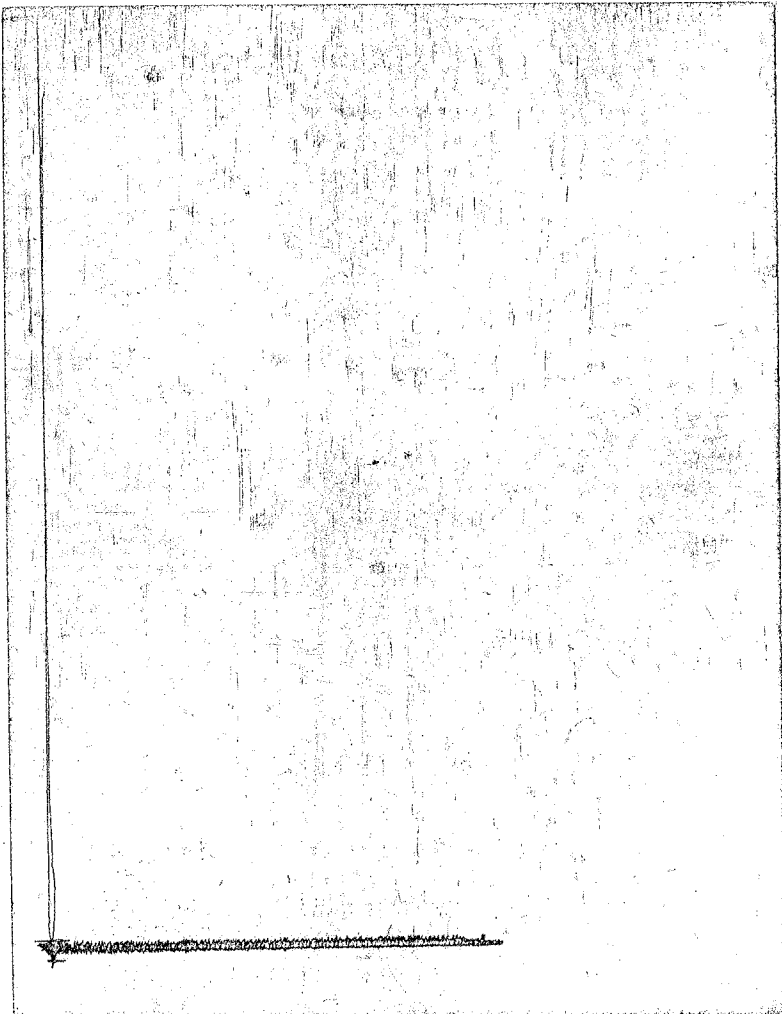
Approved By Kent Crisler

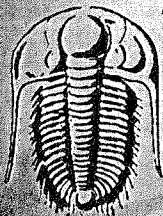
Our Representative Rod Steinbrink

Circ. Sub X N/C
 Sampler
 Extra Packer
 Elec. Rec. X
 Mileage
 Other
 TOTAL PRICE \$

CHART PAGE

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TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 15050

Test Ticket

Well Name & No.	Koci 'A' #3	Test No.	3	Date	3-31-02
Company	Pickrell Drilling Company Inc.	Zone Tested	Mississippian		
Address	100 S. Main Ste 505 Wichita, KS. 67202-3738	Elevation	2971	KB	2966 GL
Co. Rep / Geo.	Kent Crisler	Cont.	Pickrell #1	Est. Ft. of Pay	Por. %
Location: Sec.	1	Twp.	18 ^S	Rge.	32 ^W
		Co.	Scott	State	KS
No. of Copies		Distribution Sheet (Y, N)		Turnkey (Y, N)	
		Evaluation (Y, N)			

Interval Tested	4653 - 4700	Initial Str Wt./Lbs.	66,000	Unseated Str Wt./Lbs.	66,000
Anchor Length	47'	Wt. Set Lbs.	30,000	Wt. Pulled Loose/Lbs.	75,000
Top Packer Depth	4648 - 4653	Tool Weight	2,500		
Bottom Packer Depth	4700	Hole Size — 7 7/8"		Rubber Size — 6 3/4"	
Total Depth	(RTD) 4730	Wt. Pipe Run	—	Drill Collar Run	120'
Mud Wt.	9.3 LCM	Drill Pipe Size	4 1/2" XH	Ft. Run	4525'
Vis.	54				
WL	8.8				
Blow Description	IF: Weak blow built to 1/2"				

FF: No return blow

Recovery — Total Feet	60'	GIP	—	Ft. in DC	60'	Ft. in DP	—
Rec.	Feet Of	%gas	%oil	%water	%mud		
Rec.	Feet Of	%gas	%oil	%water	%mud		
Rec.	60'	Feet Of	MW	%gas	%oil	80%	20% mud
Rec.	Feet Of	%gas	%oil	%water	%mud		
Rec.	Feet Of	%gas	%oil	%water	%mud		
BHT	130°	°F Gravity		°API D@		°F Corrected Gravity	
							°API
RW	.16	@	80°	°F Chlorides	42,000	ppm Recovery	Chlorides 2,000
							ppm System

	AK-1	Alpine			
(A) Initial Hydrostatic Mud	2300	PSI Recorder No.	3030	T-On Location	1900
(B) First Initial Flow Pressure	12	PSI (depth)	4654	T-Started	1943
(C) First Final Flow Pressure	27	PSI Recorder No.	13371	T-Open	2118
(D) Initial Shut-In Pressure	1220	PSI (depth)	4689	T-Pulled	0017
(E) Second Initial Flow Pressure	29	PSI Recorder No.	13276	T-Out	0228
(F) Second Final Flow Pressure	42	PSI (depth)	4725	T-Off Location	0330
(G) Final Shut-in Pressure	1135	PSI Initial Opening	30	Test	
(Q) Final Hydrostatic Mud	2254	PSI Initial Shut-in	60	Jars	

Final Flow	30	Safety Joint	
Final Shut-in	60	Straddle	X
		Circ. Sub	X N/C
		Sampler	
		Extra Packer	X
		Elec. Rec.	X
		Mileage	
		Other	
		TOTAL PRICE \$	

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Approved By Kent Crisler

Our Representative Rod Steinbrink

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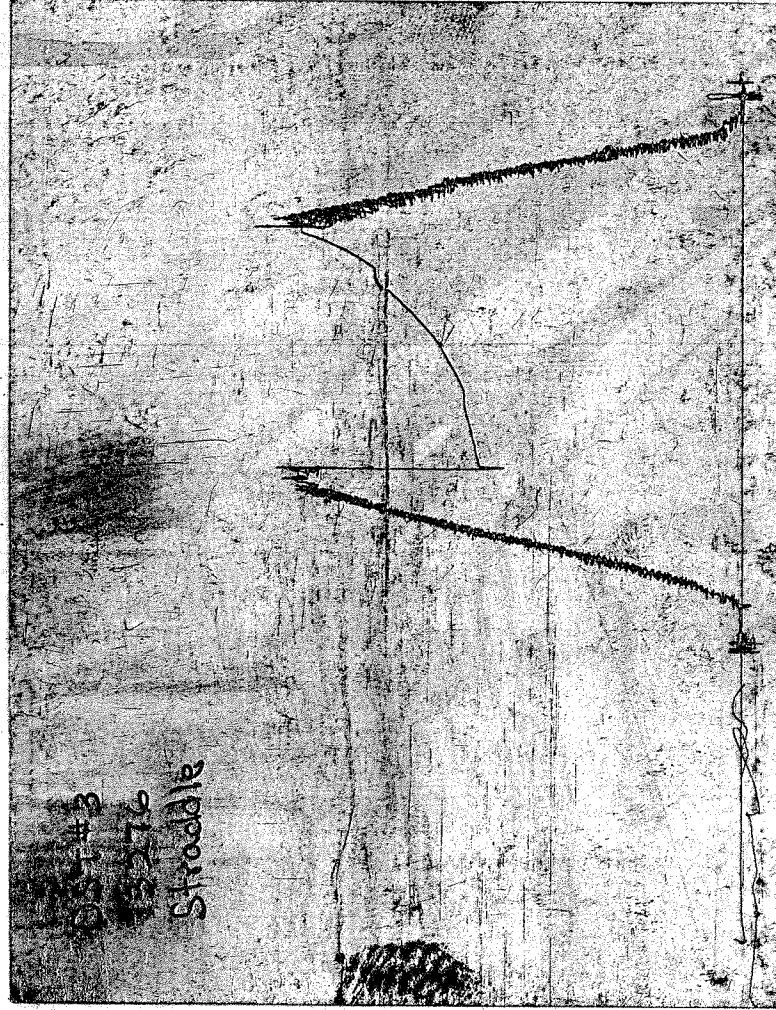


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