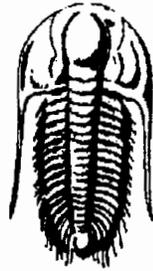


15-153-20823

19-1s-33w



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **MICA Energy**

PO Box 20707
Oklahoma City, OK 73156

ATTN: MICA Energy

19-1-33 Rawlins, Ks

Dozbaba #1-19

Start Date: 2003.07.16 @ 19:35:59

End Date: 2003.07.17 @ 02:40:28

Job Ticket #: 17518 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

MCA Energy
PO Box 20707
Oklahoma City, OK 73156
ATTN: MCA Energy

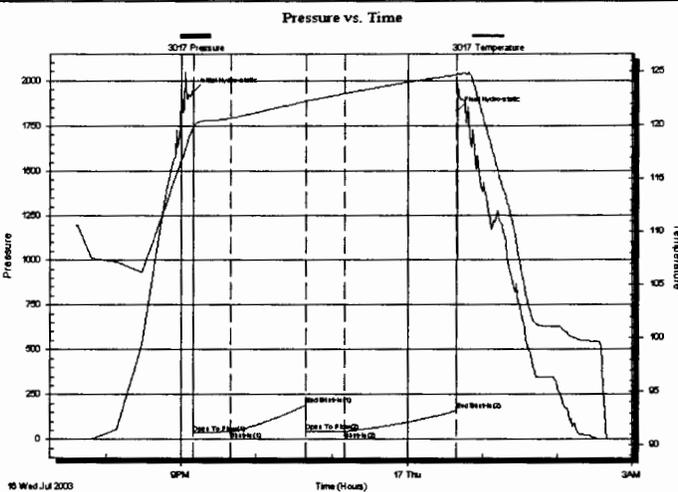
Dozbaba #1-19
19-1-33 Rawlins, Ks
Job Ticket: 17518 **DST#: 1**
Test Start: 2003.07.16 @ 19:35:59

GENERAL INFORMATION:

Formation: **KC**
Deviated: **No** Whipstock: ft (KB)
Time Tool Opened: 21:09:28
Time Test Ended: 02:40:28
Test Type: Conventional Bottom Hole
Tester: Shane McBride
Unit No: 25
Interval: **3974.00 ft (KB) To 4042.00 ft (KB) (TVD)**
Reference Elevations: 3025.00 ft (KB)
Total Depth: 4042.00 ft (KB) (TVD) 3020.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 5.00 ft

Serial #: 3017 Inside
Press@RunDepth: 45.10 psig @ 3975.00 ft (KB) Capacity: 7000.00 psig
Start Date: 2003.07.16 End Date: 2003.07.17 Last Calib.: 1899.12.30
Start Time: 19:35:59 End Time: 02:40:28 Time On Btrm: 2003.07.16 @ 21:09:13
Time Off Btrm: 2003.07.17 @ 00:39:43

TEST COMMENT: 3/4" in blow died in 16 min.
No return
No blow
No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1938.64	119.73	Initial Hydro-static
1	35.81	119.78	Open To Flow (1)
31	42.90	120.67	Shut-in (1)
91	193.68	122.26	End Shut-in (1)
91	43.84	122.26	Open To Flow (2)
121	45.10	122.95	Shut-in (2)
210	160.06	124.69	End Shut-in (2)
211	1832.47	124.80	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	mud 100% m	0.10

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

MICA Energy
PO Box 20707
Oklahoma City, OK 73156

ATTN: MICA Energy

Dozbaba #1-19
19-1-33 Rawlins, Ks
Job Ticket: 17518 **DST#: 1**

Test Start: 2003.07.16 @ 19:35:59

Tool Information

Drill Pipe:	Length: 3428.00 ft	Diameter: 3.80 inches	Volume: 48.09 bbl	Tool Weight: 1500.00 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: 543.00 ft	Diameter: 2.25 inches	Volume: 2.67 bbl	Weight to Pull Loose: 76000.00 lb
			<u>Total Volume: 50.76 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	24.00 ft			String Weight: Initial 66000.00 lb
Depth to Top Packer:	3974.00 ft			Final 66000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	68.00 ft			
Tool Length:	95.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			3948.00	
S.I. Tool	5.00			3953.00	
HMV	5.00			3958.00	
Jars	5.00			3963.00	
Safety Joint	2.00			3965.00	
Packer	5.00			3970.00	27.00 Bottom Of Top Packer
Packer	4.00			3974.00	
Stubb	1.00			3975.00	
Recorder	0.00	3017	Inside	3975.00	
Perforations	29.00			4004.00	
C.O. Sub	1.00			4005.00	
drillpipe	31.00			4036.00	
C.O. Sub	1.00			4037.00	
Recorder	0.00	11058	Outside	4037.00	
Bullnose	5.00			4042.00	68.00 Bottom Packers & Anchor

Total Tool Length: 95.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

MICA Energy
PO Box 20707
Oklahoma City, OK 73156
ATTN: MICA Energy

Dozbaba #1-19
19-1-33 Rawlins, Ks
Job Ticket: 17518 **DST#: 1**
Test Start: 2003.07.16 @ 19:35:59

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length:	Water Salinity:	700 ppm
Viscosity: 51.00 sec/qt	ft		
Water Loss: 6.79 in ³	Cushion Volume:		
Resistivity: 0.00 ohm.m	bbl		
Salinity: 700.00 ppm	Gas Cushion Type:		
Filter Cake: 2.00 inches	Gas Cushion Pressure:		
	psig		

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	mud 100%m	0.098

Total Length: 20.00 ft Total Volume: 0.098 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Serial #: 3017

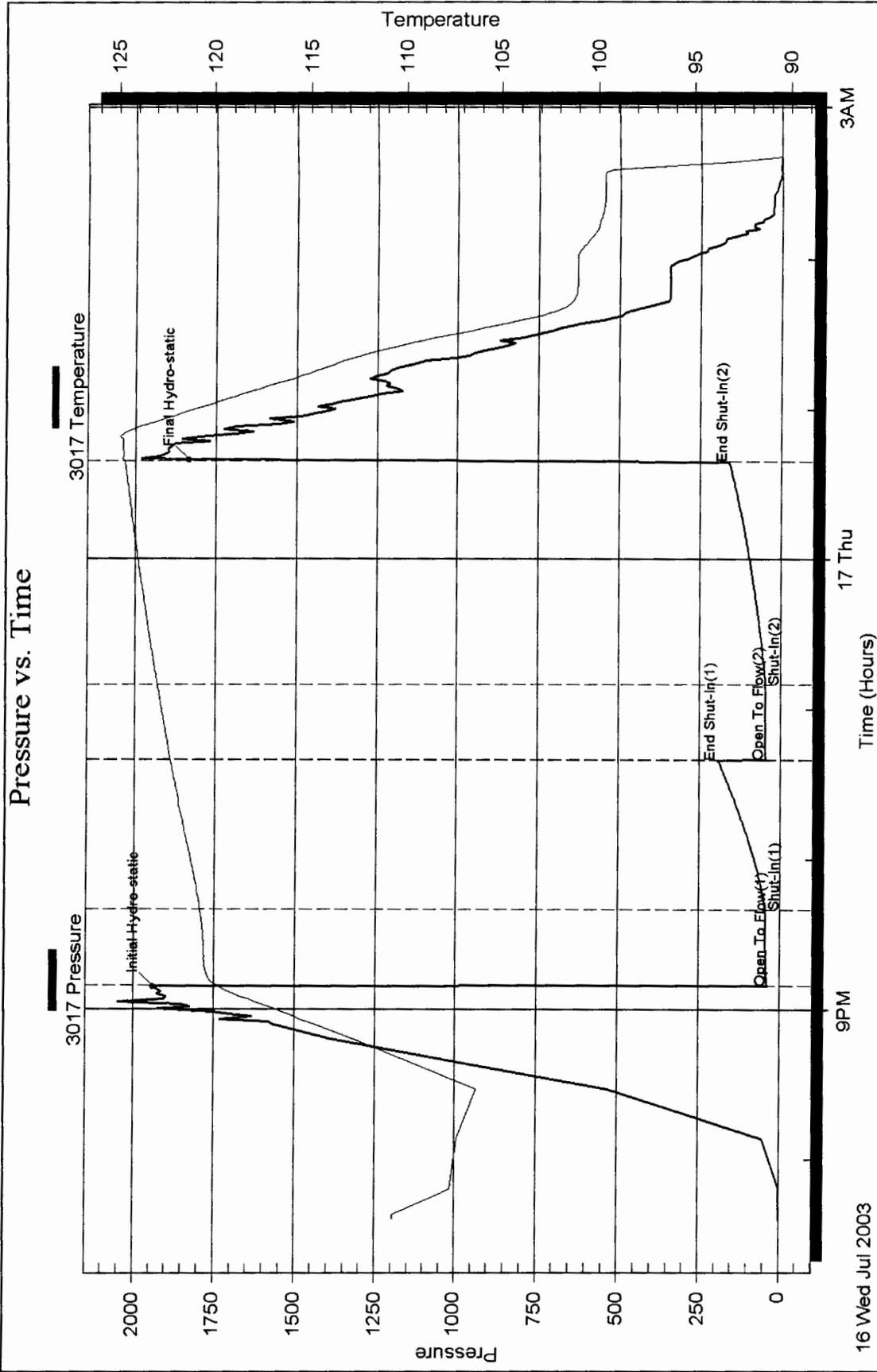
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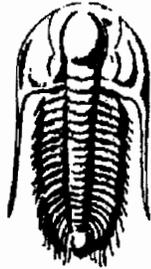
MCA Energy

19-1-33 Raw lins, Ks

DST Test Number: 1

Pressure vs. Time





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **MICA Energy**

PO Box 20707
Oklahoma City, OK 73156

ATTN: MICA Energy

19-1-33 Rawlins, Ks

Dozbaba #1-19

Start Date: 2003.07.17 @ 10:54:29

End Date: 2003.07.17 @ 17:35:13

Job Ticket #: 17519 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

MICA Energy

Dozbaba #1-19

19-1-33 Rawlins, Ks

DST # 2

KC

2003.07.17



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

MICA Energy
PO Box 20707
Oklahoma City, OK 73156
ATTN: MICA Energy

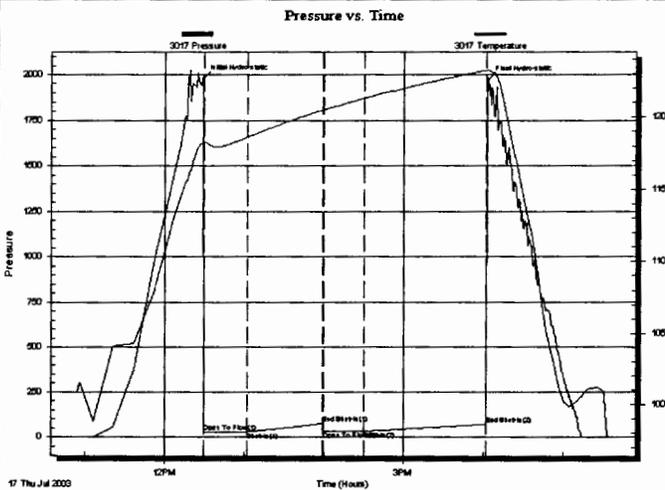
Dozbaba #1-19
19-1-33 Rawlins, Ks
Job Ticket: 17519 DST#: 2
Test Start: 2003.07.17 @ 10:54:29

GENERAL INFORMATION:

Formation: **KC**
Deviated: **No** Whipstock: **ft (KB)**
Time Tool Opened: **12:29:28**
Time Test Ended: **17:35:13**
Test Type: **Conventional Bottom Hole**
Tester: **Shane McBride**
Unit No: **25**
Interval: **4025.00 ft (KB) To 4086.00 ft (KB) (TVD)**
Reference Elevations: **3025.00 ft (KB)**
Total Depth: **4086.00 ft (KB) (TVD)**
3020.00 ft (CF)
Hole Diameter: **7.88 inches** Hole Condition: **Fair**
KB to GR/CF: **5.00 ft**

Serial #: 3017 **Inside**
Press@RunDepth: **33.87 psig @ 4026.00 ft (KB)**
Capacity: **7000.00 psig**
Start Date: **2003.07.17** End Date: **2003.07.17**
Last Calib.: **1899.12.30**
Start Time: **10:54:29** End Time: **17:35:13**
Time On Btm: **2003.07.17 @ 12:29:13**
Time Off Btm: **2003.07.17 @ 16:02:58**

TEST COMMENT: **Weak blow died in 4 min.**
No return
No blow
No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1980.35	118.23	Initial Hydro-static
1	27.96	118.25	Open To Flow (1)
33	30.86	118.62	Shut-In(1)
90	77.12	120.51	End Shut-In(1)
91	32.22	120.52	Open To Flow (2)
121	33.87	121.31	Shut-In(2)
213	73.24	123.24	End Shut-In(2)
214	1973.64	123.28	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	mud w/oil spots	0.02

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

MICA Energy
PO Box 20707
Oklahoma City, OK 73156

ATTN: MICA Energy

Dozbaba #1-19
19-1-33 Rawlins, Ks
Job Ticket: 17519 **DST#: 2**
Test Start: 2003.07.17 @ 10:54:29

Tool Information

Drill Pipe:	Length: 3488.00 ft	Diameter: 3.80 inches	Volume: 48.93 bbl	Tool Weight: 1500.00 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: 543.00 ft	Diameter: 2.25 inches	Volume: 2.67 bbl	Weight to Pull Loose: 76000.00 lb
			<u>Total Volume: 51.60 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	33.00 ft			String Weight: Initial 66000.00 lb
Depth to Top Packer:	4025.00 ft			Final 66000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	61.00 ft			
Tool Length:	88.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			3999.00	
S.I. Tool	5.00			4004.00	
HMV	5.00			4009.00	
Jars	5.00			4014.00	
Safety Joint	2.00			4016.00	
Packer	5.00			4021.00	27.00 Bottom Of Top Packer
Packer	4.00			4025.00	
Stubb	1.00			4026.00	
Recorder	0.00	3017	Inside	4026.00	
Perforations	22.00			4048.00	
C.O. Sub	1.00			4049.00	
drillpipe	31.00			4080.00	
C.O. Sub	1.00			4081.00	
Recorder	0.00	11058	Outside	4081.00	
Bullnose	5.00			4086.00	61.00 Bottom Packers & Anchor

Total Tool Length: 88.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

MICA Energy
PO Box 20707
Oklahoma City, OK 73156
ATTN: MICA Energy

Dozbaba #1-19
19-1-33 Rawlins, Ks
Job Ticket: 17519 **DST#: 2**
Test Start: 2003.07.17 @ 10:54:29

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: 700 ppm	
Viscosity: 51.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.78 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 700.00 ppm			
Filter Cake: 2.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	mud w/oil spots	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Serial #: 3017

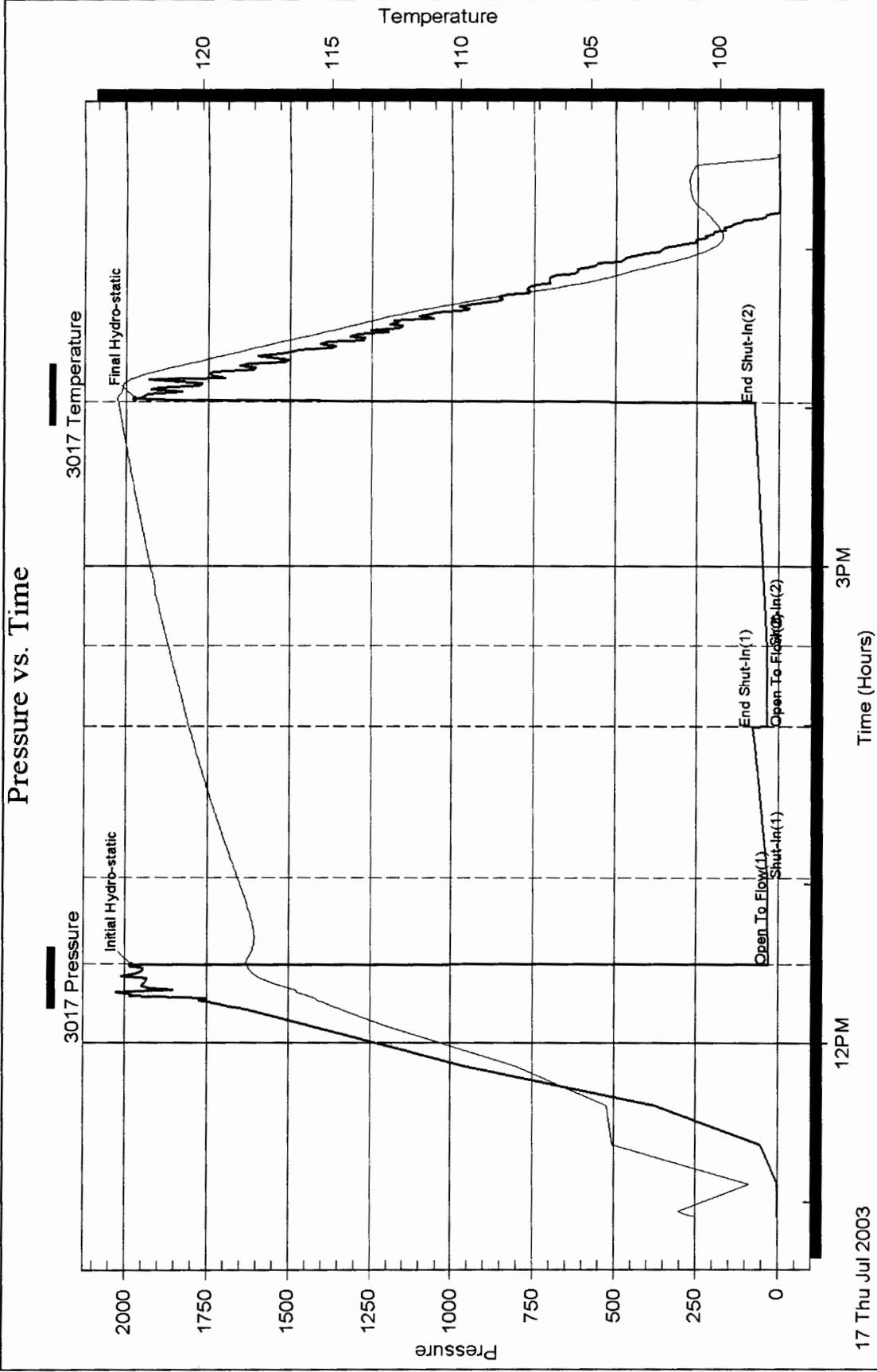
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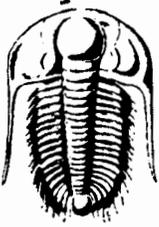
MCA Energy

19-1-33 Raw lins, Ks

DST Test Number: 2

Pressure vs. Time





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 17518

12/02

Test Ticket

Well Name & No. Doz baba #1-19 Test No. #1 Date 7/16/03
 Company MICA Energy Zone Tested KC
 Address P.O. Box 20707 Oklahoma City, OK 73156 Elevation 3025' KB 3020' GL
 Co. Rep / Geo. Bryan Bynog Cont. Markin #3 Est. Ft. of Pay _____ Por. _____ %
 Location: Sec. 19 Twp. 15 Rge. 33w Co. Rawlins State K5
 No. of Copies None Distribution Sheet (Y, N) _____ Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested 3974' 4042' Initial Str Wt./Lbs. 606,000 Unseated Str Wt./Lbs. 606,000
 Anchor Length _____ 68' Wt. Set Lbs. 30,000 Wt. Pulled Loose/Lbs. 76,000
 Top Packer Depth _____ 3969' Tool Weight 1500
 Bottom Packer Depth _____ 3974' Hole Size 7 7/8" Rubber Size 6 3/4"
 Total Depth _____ 4042' Wt. Pipe Run _____ Drill Collar Run 542'
 Mud Wt. 9.1 LCM Ti Vis. 51 WL 6.8 Drill Pipe Size 4 1/2 x 4 Ft. Run 3428'
 Blow Description 3/4" in blow died in 16 min

No returns
No blow
No returns

Recovery - Total Feet 20' GIP _____ Ft. in DC 20' Ft. in DP _____
 Rec. 20' Feet of mud 100% mud
 Rec. _____ Feet of _____
 BHT 125° °F Gravity _____ °API D @ _____ °F Corrected Gravity _____ °API
 RW _____ @ _____ °F Chlorides _____ ppm Recovery _____ Chlorides 700 ppm System

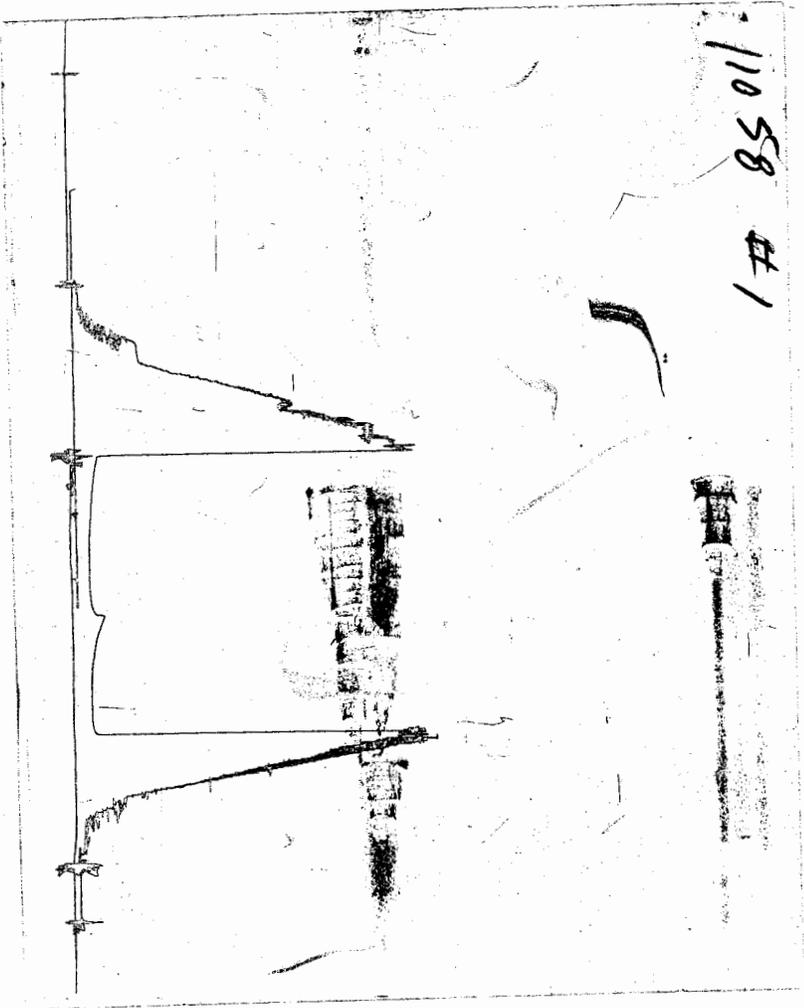
	AK-1	Alpine	Recorder No.	Test
(A) Initial Hydrostatic Mud	<u>2003</u> PSI		<u>3017</u>	<u>X</u>
(B) First Initial Flow Pressure	<u>35</u> PSI		<u>3975'</u>	<u>X</u>
(C) First Final Flow Pressure	<u>42</u> PSI		<u>11058</u>	<u>X</u>
(D) Initial Shut-In Pressure	<u>193</u> PSI		<u>4037</u>	<u>X</u>
(E) Second Initial Flow Pressure	<u>43</u> PSI			<u>X n/c</u>
(F) Second Final Flow Pressure	<u>45</u> PSI			
(G) Final Shut-In Pressure	<u>160</u> PSI	Initial Opening	<u>30</u>	
(Q) Final Hydrostatic Mud	<u>1982</u> PSI	Initial Shut-In	<u>60</u>	
		Final Flow	<u>30</u>	
		Final Shut-In	<u>90</u>	

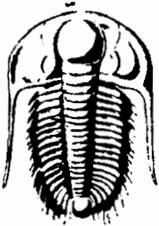
TRILLOBITE TESTING INC. SHALL NOT BE LIABLE FOR DAMAGE OF ANY KIND OF THE PROPERTY OR PERSONNEL OF THE ONE FOR WHOM A TEST IS MADE, OR FOR ANY LOSS SUFFERED OR SUSTAINED, DIRECTLY OR INDIRECTLY, THROUGH THE USE OF ITS EQUIPMENT, OR ITS STATEMENTS OR OPINION CONCERNING THE RESULTS OF ANY TEST. TOOLS LOST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

Approved By [Signature] T-Started 18:00 p.m. Sub Total: 1320
 Our Representative [Signature] T-Open 21:10 p.m. Std. By [Signature]
 T-Pulled 00:40 A.M. Total: _____
 T-Out 02:30 A.M.

CHART PAGE

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





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 17519

12/02

Test Ticket

Well Name & No. Dozbaba #1-19 Test No. #2 Date 7-17-03
 Company MICA Energy Zone Tested KC
 Address P.O. Box 20707, Oklahoma City, OK Elevation 3025' KB 3020' GL
 Co. Rep / Geo. Bryan Bynog Cont. Murkin #3 Est. Ft. of Pay _____ Por. _____ %
 Location: Sec. 19 Twp. 15 Rge. 33w Co. Rawlins State Ks
 No. of Copies Norm Distribution Sheet (Y, N) _____ Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested 4025' 4086' Initial Str Wt./Lbs. 66,000 Unseated Str Wt./Lbs. 66,000
 Anchor Length _____ 61' Wt. Set Lbs. 30,000 Wt. Pulled Loose/Lbs. 76,000
 Top Packer Depth _____ 4020' Tool Weight 1500
 Bottom Packer Depth _____ 4025' Hole Size 7 7/8" Rubber Size 6 3/4"
 Total Depth _____ 4086' Wt. Pipe Run _____ Drill Collar Run 543'
 Mud Wt. 9.1 LCM Tr Vis. 51 WL 6.8 Drill Pipe Size 4 1/2 x 4 Ft. Run _____
 Blow Description Weak blow died in 4 min.

No return
No blow
No return

Recovery - Total Feet 5' GIP _____ Ft. in DC 5' Ft. in DP _____
 Rec. 5' Feet of mud w/0.1 spots
 Rec. _____ Feet of _____
 BHT 123° °F Gravity _____ °API D @ _____ °F Corrected Gravity _____ °API
 RW _____ @ _____ °F Chlorides _____ ppm Recovery _____ Chlorides 700 ppm System

	AK-1	Alpine	Recorder No.	Test
(A) Initial Hydrostatic Mud		<u>1980</u> PSI	<u>3017</u>	<u>X</u>
(B) First Initial Flow Pressure		<u>27</u> PSI	(depth) <u>4026'</u>	Elec. Rec. <u>X</u>
(C) First Final Flow Pressure		<u>30</u> PSI	Recorder No. <u>11058</u>	Jars <u>X</u>
(D) Initial Shut-In Pressure		<u>77</u> PSI	(depth) <u>4081'</u>	Safety Jt. <u>X</u>
(E) Second Initial Flow Pressure		<u>32</u> PSI	Recorder No. _____	Circ Sub <u>X N/C</u>
(F) Second Final Flow Pressure		<u>34</u> PSI	(depth) _____	Sampler _____
(G) Final Shut-In Pressure		<u>73</u> PSI	Initial Opening <u>30</u>	Straddle _____
(Q) Final Hydrostatic Mud		<u>1973</u> PSI	Initial Shut-In <u>60</u>	Ext. Packer _____
			Final Flow <u>30</u>	Shale Packer _____
			Final Shut-In <u>90</u>	Mileage <u>11R</u>

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Approved By [Signature] T-Started 10:35 a.m. Std. By _____
 Our Representative [Signature] T-Open 12:30 p.m. Other Next copies
 T-Pulled 16:00 p.m. Total: 1200
 T-Out 18:00 p.m.

CHART PAGE

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

