

DRILL STEM TEST REPORT

Prepared For: **Cholla Production LLC**

7851 South Elati Street Ste 201
Littleton CO 80120

ATTN: Bill Goff

17 19S 33W Scott KS

Miller 1-17

Start Date: 2006.12.30 @ 01:13:26

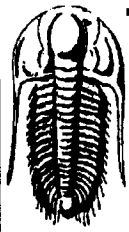
End Date: 2006.12.30 @ 11:54:15

Job Ticket #: 26340 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

Cholla Production LLC

7851 South Elati Street Ste 201
Littleton CO 80120

ATTN: Bill Goff

Miller 1-17

17 19S 33W Scott KS

Job Ticket: 26340

DST#: 1

Test Start: 2006.12.30 @ 01:13:26

GENERAL INFORMATION:

Formation: **Marmaton**

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

Time Tool Opened: 05:49:26

Time Test Ended: 11:54:15

Test Type: **Conventional Bottom Hole**

Tester: **Chris Hagman**

Unit No: **34**

Interval: **4380.00 ft (KB) To 4410.00 ft (KB) (TVD)**

Total Depth: **4410.00 ft (KB) (TVD)**

Hole Diameter: **7.78 inches** Hole Condition: **Good**

Reference Elevations: **2992.00 ft (KB)**

2982.00 ft (CF)

KB to GR/CF: **10.00 ft**

Serial #: **8288**

Inside

Press@RunDepth: **25.04 psig @ 4382.00 ft (KB)**

Start Date: **2006.12.30**

End Date:

2006.12.30

Capacity: **7000.00 psig**

Last Calib.: **1899.12.30**

Start Time: **01:13:26**

End Time:

11:54:15

Time On Btm: **2006.12.30 @ 05:49:05**

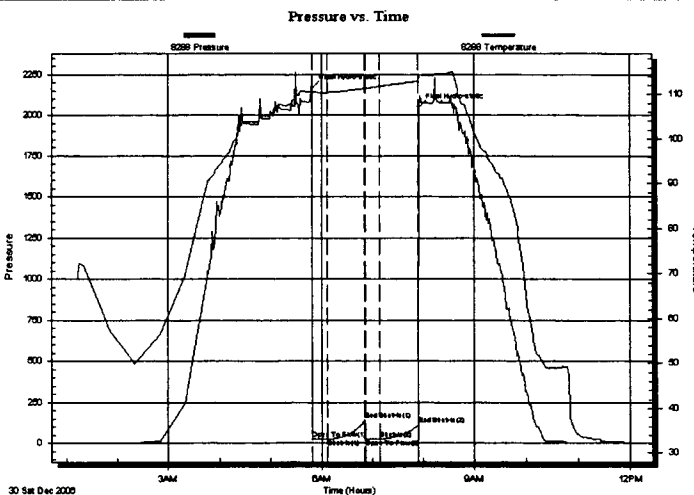
Time Off Btm: **2006.12.30 @ 07:55:26**

TEST COMMENT: IF Weak surface blow, died 5 min.

ISI No blow back

FF No blow

FSI No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2168.18	110.82	Initial Hydro-static
1	22.14	110.42	Open To Flow (1)
19	23.37	110.40	Shut-In (1)
63	141.13	111.30	End Shut-In (1)
63	23.54	111.31	Open To Flow (2)
81	25.04	111.77	Shut-In (2)
126	112.47	112.93	End Shut-In (2)
127	2051.47	114.16	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	100%M	0.05

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Cholla Production LLC

7851 South Elati Street Ste 201
Littleton CO 80120

ATTN: Bill Goff

Miller 1-17

17 19S 33W Scott KS

Job Ticket: 26340

DST#: 1

Test Start: 2006.12.30 @ 01:13:26

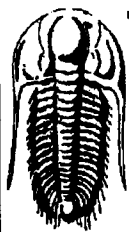
Tool Information

Drill Pipe:	Length: 4164.00 ft	Diameter: 3.80 inches	Volume: 58.41 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: 20000.00 lb
Drill Collar:	Length: 208.00 ft	Diameter: 2.25 inches	Volume: 1.02 bbl	Weight to Pull Loose: 95000.00 lb
			<u>Total Volume: 59.43 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	23.00 ft			String Weight: Initial 81000.00 lb
Depth to Top Packer:	4380.00 ft			Final 81000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	30.00 ft			
Tool Length:	61.00 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			4350.00	
Shut In Tool	5.00			4355.00	
Sampler	3.00			4358.00	
Hydraulic tool	5.00			4363.00	
Jars	5.00			4368.00	
Safety Joint	3.00			4371.00	
Packer	5.00			4376.00	31.00 Bottom Of Top Packer
Packer	4.00			4380.00	
Stubb	1.00			4381.00	
Perforations	1.00			4382.00	
Recorder	0.00	8288	Inside	4382.00	
Perforations	25.00			4407.00	
Recorder	0.00	13630	Inside	4407.00	
Bullnose	3.00			4410.00	30.00 Bottom Packers & Anchor

Total Tool Length: 61.00



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Cholla Production LLC

Miller 1-17

7851 South Elati Street Ste 201
Littleton CO 80120

17 19S 33W Scott KS

Job Ticket: 26340

DST#: 1

ATTN: Bill Goff

Test Start: 2006.12.30 @ 01:13:26

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:

6700 ppm

Viscosity: 46.00 sec/qt

Cushion Volume:

bbl

Water Loss: 11.15 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6100.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	100%M	0.049

Total Length: 10.00 ft Total Volume: 0.049 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW=1.486@43F=6700ppm

Serial #: 8288

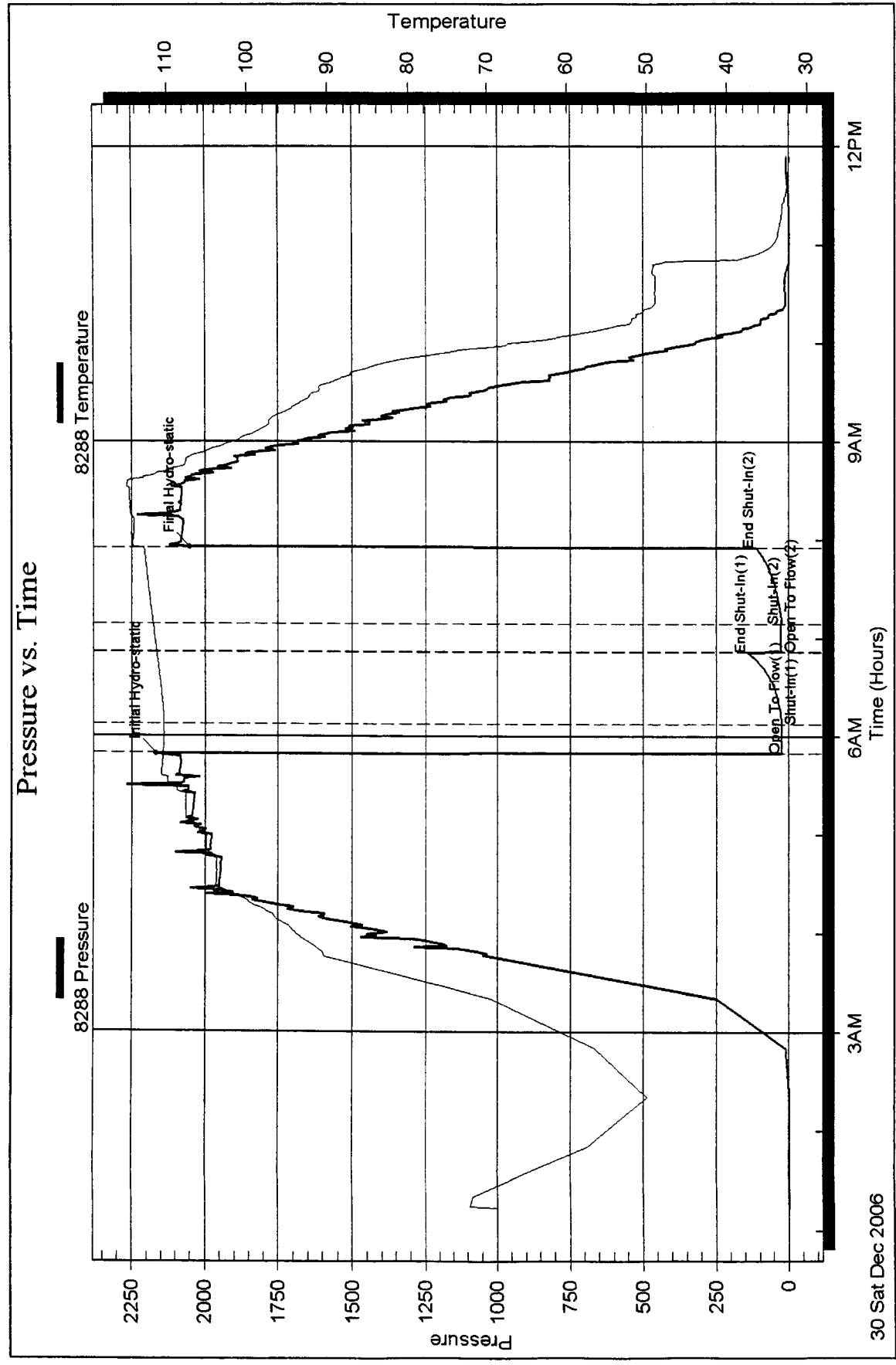
Inside

Cholla Production LLC

17 19S33W Scott KS

DST Test Number: 1

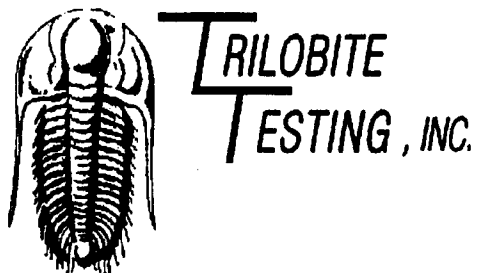
Pressure vs. Time



Ref. No: 26340

Trilobite Testing, Inc

Printed: 2007.01.08 @ 10:05:47 Page 5



DRILL STEM TEST REPORT

Prepared For: **Cholla Production LLC**

7851 South Elati Street Ste 201
Littleton CO 80120

ATTN: Bill Goff

17 19S 33W Scott KS

Miller 1-17

Start Date: 2007.01.04 @ 21:44:00

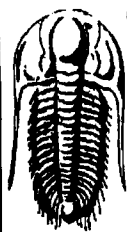
End Date: 2007.01.05 @ 06:41:00

Job Ticket #: 26586 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

Cholla Production LLC

7851 South Elati Street Ste 201
Littleton CO 80120

ATTN: Bill Goff

Miller 1-17

17 19S 33W Scott KS

Job Ticket: 26586

DST#: 2

Test Start: 2007.01.04 @ 21:44:00

GENERAL INFORMATION:

Formation: **Morrow**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:05:45

Time Test Ended: 06:41:00

Test Type: Conventional Bottom Hole

Tester: Chuck Smith

Unit No: 37

Interval: **4669.00 ft (KB) To 4690.00 ft (KB) (TVD)**

Total Depth: 4690.00 ft (KB) (TVD)

Hole Diameter: 7.78 inches Hole Condition: Good

Reference Elevations: 2992.00 ft (KB)

2982.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 8017

Inside

Press@RunDepth: 75.81 psig @ 4671.00 ft (KB)

Start Date: 2007.01.04

End Date:

2007.01.05

Capacity: 7000.00 psig

Last Calib.: 2007.01.05

Start Time: 21:44:01

End Time:

06:41:00

Time On Btm: 2007.01.05 @ 00:05:15

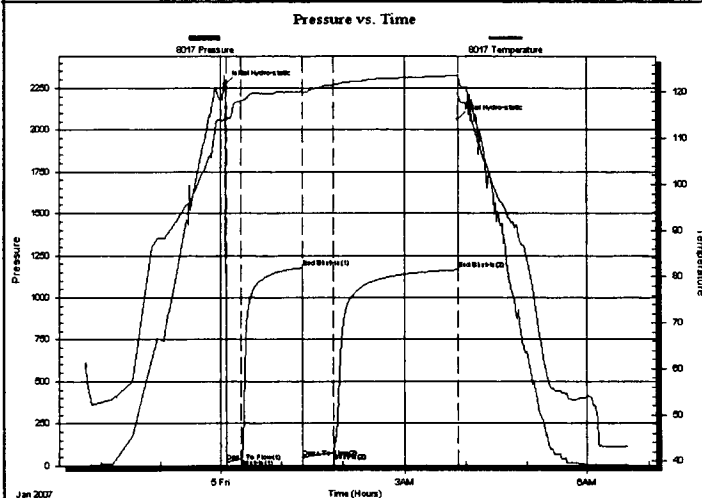
Time Off Btm: 2007.01.05 @ 03:52:30

TEST COMMENT: IF Surface blow built to 1 1/4 "

ISI No return

FF Surface blow built to 3 3/4 "

FSI No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2273.67	114.51	Initial Hydro-static
1	19.81	114.00	Open To Flow (1)
16	41.23	118.12	Shut-In(1)
76	1178.12	120.24	End Shut-In(1)
76	45.43	119.60	Open To Flow (2)
107	75.81	121.64	Shut-In(2)
227	1164.97	123.66	End Shut-In(2)
228	2063.90	123.89	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2.00	FO 100%O	0.01
15.00	WOCM 10%W 20%O 70%M	0.07
120.00	OWCM 1%O 24%W 75%M	0.59

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Cholla Production LLC

Miller 1-17

7851 South Eliot Street Ste 201
Littleton CO 80120

17 19S 33W Scott KS

Job Ticket: 26586

DST#: 2

ATTN: Bill Goff

Test Start: 2007.01.04 @ 21:44:00

Tool Information

Drill Pipe:	Length: 4448.00 ft	Diameter: 3.80 inches	Volume: 62.39 bbl	Tool Weight: 1800.00 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: 208.00 ft	Diameter: 2.25 inches	Volume: 1.02 bbl	Weight to Pull Loose: 100000.0 lb
			<u>Total Volume: 63.41 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 85000.00 lb
Depth to Top Packer:	4669.00 ft			Final 85000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	21.00 ft			
Tool Length:	49.00 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			4642.00	
Shut In Tool	5.00			4647.00	
Hydraulic tool	5.00			4652.00	
Jars	5.00			4657.00	
Safety Joint	3.00			4660.00	
Packer	5.00			4665.00	28.00 Bottom Of Top Packer
Packer	4.00			4669.00	
Stubb	1.00			4670.00	
Perforations	1.00			4671.00	
Recorder	0.00	8017	Inside	4671.00	
Perforations	14.00			4685.00	
Recorder	0.00	13309	Inside	4685.00	
Bullnose	5.00			4690.00	21.00 Bottom Packers & Anchor
Total Tool Length:		49.00			



TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

Cholla Production LLC

Miller 1-17

7851 South Elati Street Ste 201
Littleton CO 80120

17 19S 33W Scott KS

Job Ticket: 26586

DST#: 2

ATTN: Bill Goff

Test Start: 2007.01.04 @ 21:44:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

32 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

20000 ppm

Viscosity: 49.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.98 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 8000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2.00	FO 100%O	0.010
15.00	WOCM 10%W 20%O 70%M	0.074
120.00	OWCM 1%O 24%W 75%M	0.590

Total Length: 137.00 ft Total Volume: 0.674 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

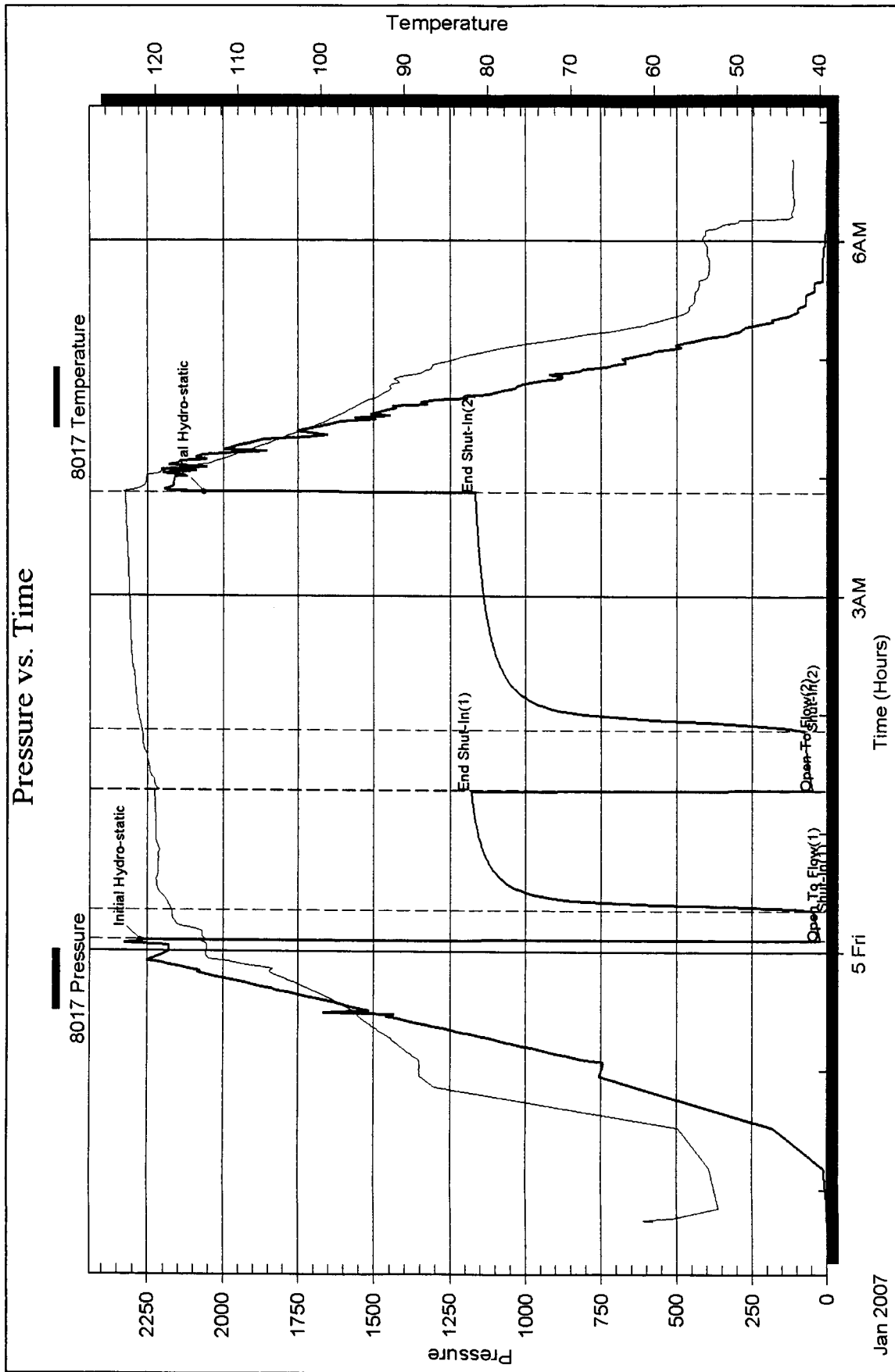
Laboratory Name:

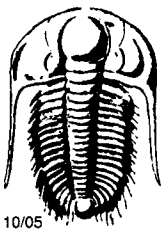
Laboratory Location:

Recovery Comments: RW: .700 @ 24 degrees F = 20000 chlorides.

API: 29 @ 34 degrees F = 32.

Pressure vs. Time





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

9718✓ 26340

Test Ticket

Well Name & No. Miller 1-17 Test No. 1 Date 12-29-06
 Company Challa Production, LLC Zone Tested Marmaton
 Address 7851 South Clats Street, Suite 207 Littleton, CO 80120 Elevation 2992 KB 2982 GL
 Co. Rep / Geo. Bill Coff Rig Martin 21
 Location: Sec. 17 Twp. 19S Rge. 33W Co. Scott State KS
 Comment: _____ Release date / time: _____

Interval Tested 4380 - 4410 Initial Str Wt./Lbs. 811K Unseated Str Wt./Lbs. 811K
 Anchor Length 30' Wt. Set Lbs. 20K Wt. Pulled Loose/Lbs. 95K
 Top Packer Depth 4375 Tool Weight 2K
 Bottom Packer Depth 4380 Hole Size 7 7/8" ✓ Rubber Size 6 3/4" ✓
 Total Depth 4410 Wt. Pipe Run N.A. Drill Collar Run 208
 Mud Wt. 9.1 LCM 46 i# 46 Vis. 46 WL 11.2 Drill Pipe Size 4.5 XH Ft. Run 4164
 Blow Description IF: weak surface blow, died 5 min.
ISB: No blow back
FF: No blow
FSB: No blow back

Recovery - Total Feet 10 GIP 0 Ft. in DC 10 Ft. in DP 0
 Rec. 10 Feet of mud %gas %oil %water 100 %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 _____ °F Gravity _____ °API D @ _____ °F Corrected Gravity _____ °API
 RW _____ @ _____ °F Chlorides _____ ppm Recovery _____ Chlorides G100 ppm System

	AK-1	Alpine			
(A) Initial Hydrostatic Mud	2156	PSI	Recorder No.	8288(1:14)	Test ✓ conv. 1200
(B) First Initial Flow Pressure	22	PSI	(depth)	4382	Jars ✓ 250
(C) First Final Flow Pressure	23	PSI	Recorder No.	13630	Safety Jt. ✓ 75
(D) Initial Shut-In Pressure	141	PSI	(depth)	4407	Circ Sub
(E) Second Initial Flow Pressure	24	PSI	Recorder No.		Sampler ✓ 250
(F) Second Final Flow Pressure	25	PSI	(depth)		Straddle
(G) Final Shut-In Pressure	112	PSI	Initial Opening	15	Ext. Packer
(Q) Final Hydrostatic Mud	2224	PSI	Initial Shut-In	45	Shale Packer
			Final Flow	15	Ruined Packer
			Final Shut-In	45	Mileage ✓ 120 250
			T-On Location	2300	Sub Total: 1800
			T-Started	0200	Std. By 13.0
			T-Open	0550	Acc. Chg:
			T-Pulled	0750	Other:
			T-Out	1100	Total: 2100

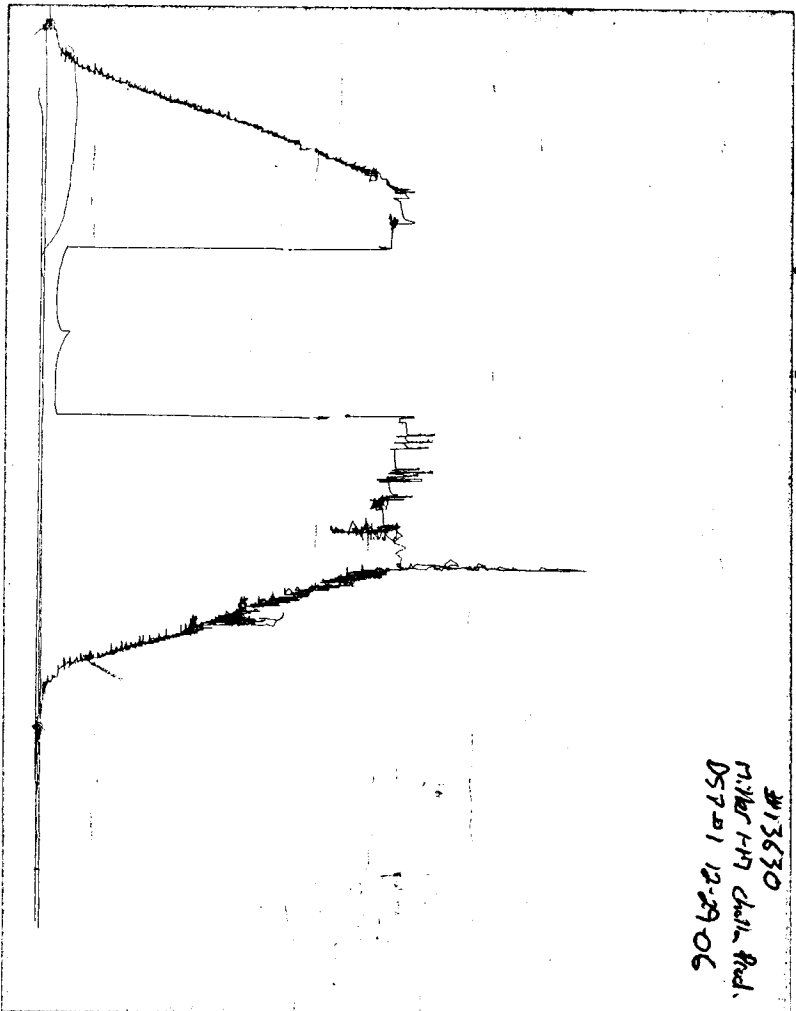
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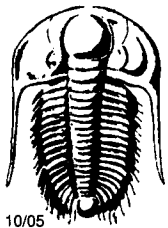
Approved By _____
 Our Representative [Signature]

CHART PAGE

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

#13630
M. W. L. H. Chalk, Prod.
D5721 12-29-06





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

26586 ✓

9118

Test Ticket

Well Name & No. <u>Miller #1-17</u>	Test No. <u>2</u>	Date <u>1-4-07</u>
Company <u>Cholla Production, LLC</u>	Zone Tested <u>Marrow</u>	
Address <u>7851 S. Elati St. Ste. 201 Littleton, CO 80120</u>	Elevation <u>2992</u>	KB <u>2982</u> GL
Co. Rep / Geo. <u>Bill Goff</u>	Rig <u>Martin #21</u>	
Location: Sec. <u>17</u> Twp. <u>194</u> Rge. <u>334</u>	Co. <u>Scott</u>	State <u>KS</u>
Comment: _____		Release date / time: _____

Interval Tested <u>4669 to 4690</u>	Initial Str Wt./Lbs. <u>85,000</u>	Unseated Str Wt./Lbs. <u>85,000</u>
Anchor Length <u>22</u>	Wt. Set Lbs. <u>30,000</u>	Wt. Pulled Loose/Lbs. <u>100,000</u>
Top Packer Depth <u>4665</u>	Tool Weight <u>1,800</u>	
Bottom Packer Depth <u>4669</u>	Hole Size 7 7/8" <u>X</u>	Rubber Size 6 3/4" <u>X</u>
Total Depth <u>4690</u>	Wt. Pipe Run <u>0</u>	Drill Collar Run <u>208</u>
Mud Wt. <u>9.0</u> LCM <u>2</u> Vis. <u>49</u> WL <u>8.0</u>	Drill Pipe Size <u>4 1/2 XH</u>	Ft. Run <u>4,448</u>

Blow Description IF: Surface blow built to 1 1/4".

ISI: No return.

FF: Surface blow built to 3 3/4".

FSI: No return.

Recovery - Total Feet <u>137</u>	GIP <u>0</u>	Ft. in DC <u>137</u>	Ft. in DP <u>0</u>
Rec. <u>2</u> Feet of <u>FO</u>	%gas <u>100</u>	%oil <u>0</u>	%water <u>0</u> %mud <u>0</u>
Rec. <u>15</u> Feet of <u>WOCM</u>	%gas <u>20</u>	%oil <u>10</u>	%water <u>70</u> %mud <u>0</u>
Rec. <u>120</u> Feet of <u>OWCM</u>	%gas <u>1</u>	%oil <u>24</u>	%water <u>75</u> %mud <u>0</u>
Rec. _____ Feet of _____	%gas _____	%oil _____	%water _____ %mud _____
Rec. _____ Feet of _____	%gas _____	%oil _____	%water _____ %mud _____

BHT 124 °F Gravity 29 °API D @ 34 °F Corrected Gravity 32 °API

RW .700 @ 34 °F Chlorides 20,000 ppm Recovery 20,000 Chlorides 8,000 ppm System

(A) Initial Hydrostatic Mud <u>2,278</u> PSI	Recorder No. <u>8017</u>	Test <u>X</u> <u>1200</u> ° 9
(B) First Initial Flow Pressure <u>20</u> PSI	(depth) <u>4671</u>	Jars <u>X</u> <u>250</u> °
(C) First Final Flow Pressure <u>41</u> PSI	Recorder No. <u>13309</u>	Safety Jt. <u>X</u> <u>75</u> °
(D) Initial Shut-In Pressure <u>1,178</u> PSI	(depth) <u>4,685</u>	Circ Sub <u>X</u> <u>N/C</u>
(E) Second Initial Flow Pressure <u>45</u> PSI	Recorder No. _____	Sampler <u>X</u>
(F) Second Final Flow Pressure <u>76</u> PSI	(depth) _____	Straddle _____
(G) Final Shut-In Pressure <u>1,165</u> PSI	Initial Opening <u>15</u>	Ext. Packer _____
(Q) Final Hydrostatic Mud <u>2,197</u> PSI	Initial Shut-In <u>60</u>	Shale Packer _____

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Approved By _____

Our Representative Chuck Smith

Final Flow <u>30</u>	Final Shut-In <u>120</u>	T-On Location <u>17:58 pm</u>	T-Started <u>21:44 pm</u>	T-Open <u>00:06 am</u>	T-Pulled <u>03:53 am</u>	T-Out <u>06:41 am</u>
Test <u>X</u> <u>1200</u> ° 9	Jars <u>X</u> <u>250</u> °	Safety Jt. <u>X</u> <u>75</u> °	Circ Sub <u>X</u> <u>N/C</u>	Sampler <u>X</u>	Straddle _____	Ext. Packer _____
Shale Packer _____	Ruined Packer <u>X</u> <u>200</u> °	Mileage <u>X</u> <u>20 RT</u> <u>25</u>	Sub Total: _____	Std. By <u>X</u> <u>3.75</u> <u>2125</u>	Acc. Chg: _____	Other: _____
Total: _____	12.75					

CHART PAGE

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

Cholla Miller #1-17 26586 dst #2

