

DRILL STEM TEST REPORT

Prepared For: **Double Eagle**

800 W. 47th. St. Ste. 318
Kansas City, MO. 64112

ATTN: Pat Deenihan

7-14-12-Russell

Laubhan #1

Start Date: 2004.08.10 @ 04:52:00

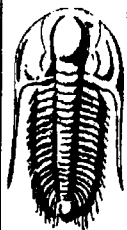
End Date: 2004.08.10 @ 12:59:30

Job Ticket #: 20327 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

Double Eagle

Laubhan #1

800 W. 47th. St. Ste. 318
Kansas City, MO. 64112

7-14-12-Russell

Job Ticket: 20327

DST#: 1

ATTN: Pat Deenihan

Test Start: 2004.08.10 @ 04:52:00

GENERAL INFORMATION:

Formation: **Lansing 30'**

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

Time Tool Opened: 07:58:00

Time Test Ended: 12:59:30

Interval: **2979.00 ft (KB) To 3005.00 ft (KB) (TVD)**

Total Depth: **3005.00 ft (KB) (TVD)**

Hole Diameter: **7.80 inches** Hole Condition: **Good**

Test Type: **Conventional Bottom Hole**

Tester: **Jason Mclemore**

Unit No: **24**

Reference Elevations: **1823.00 ft (KB)**

1818.00 ft (CF)

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

Serial #: 6753

Inside

Press@RunDepth: **63.42 psig @ 2982.00 ft (KB)**

Start Date: **2004.08.10**

End Date: **2004.08.10**

Start Time: **05:02:00**

End Time: **12:59:30**

Capacity: **7000.00 psig**

Last Calib.: **1899.12.30**

Time On Btm: **2004.08.10 @ 07:57:30**

Time Off Btm: **2004.08.10 @ 10:46:30**

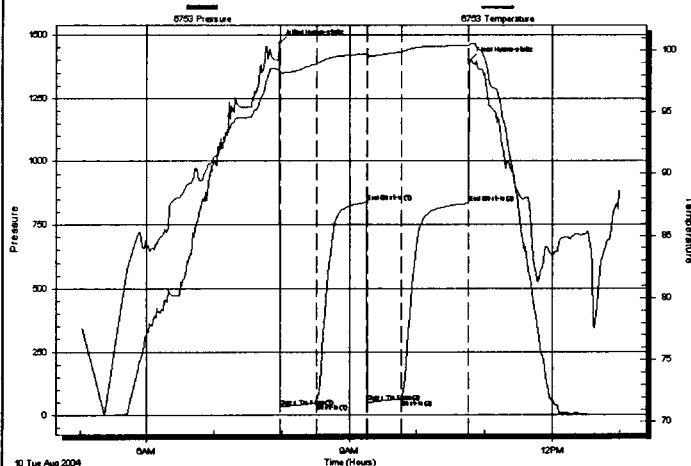
TEST COMMENT: IFP-Fair Blow ,Built to 5"

ISI-Dead

FFP-Fair Blow , Built to 7-1/2"

FSt-Surface Blow back For 6 min.

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1466.84	98.48	Initial Hydro-static
1	32.51	97.75	Open To Flow (1)
33	47.28	98.89	Shut-In(1)
78	837.77	99.68	End Shut-In(1)
78	50.78	99.49	Open To Flow (2)
109	63.42	99.87	Shut-In(2)
169	834.09	100.36	End Shut-In(2)
169	1398.84	100.46	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	OCMW-20%G-10%O-35%W-35%M	1.68

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Double Eagle

Laubhan #1

800 W. 47th. St. Ste. 318
Kansas City, MO. 64112

7-14-12-Russell

Job Ticket: 20327

DST#: 1

ATTN: Pat Deenihan

Test Start: 2004.08.10 @ 04:52:00

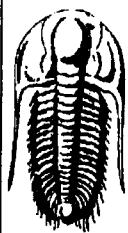
Tool Information

Drill Pipe:	Length:	2986.00 ft	Diameter:	3.80 inches	Volume:	41.89 bbl	Tool Weight:	2400.00 lb
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	2.25 inches	Volume:	0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length:	0.00 ft	Diameter:	2.25 inches	Volume:	0.00 bbl	Weight to Pull Loose:	50000.00 lb
					Total Volume:	41.89 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:		28.00 ft					String Weight: Initial	28000.00 lb
Depth to Top Packer:		2979.00 ft					Final	29000.00 lb
Depth to Bottom Packer:		ft						
Interval between Packers:		26.00 ft						
Tool Length:		47.00 ft						
Number of Packers:		2	Diameter:	6.75 inches				
Tool Comments:								

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			2959.00	
Shut In Tool	5.00			2964.00	
Hydraulic tool	5.00			2969.00	
Packer	5.00			2974.00	21.00 Bottom Of Top Packer
Packer	5.00			2979.00	
Stubb	1.00			2980.00	
Perforations	2.00			2982.00	
Recorder	0.00	6753	Inside	2982.00	
Perforations	20.00			3002.00	
Recorder	0.00	13252	Outside	3002.00	
Bullnose	3.00			3005.00	26.00 Bottom Packers & Anchor

Total Tool Length: 47.00



TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

Double Eagle

Laubhan #1

800 W. 47th. St. Ste. 318
Kansas City, MO. 64112

7-14-12-Russell

Job Ticket: 20327

DST#: 1

ATTN: Pat Deenihan

Test Start: 2004.08.10 @ 04:52:00

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:

26000 ppm

Viscosity: 40.00 sec/qt

Cushion Volume:

bbl

Water Loss: 11.19 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 7000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	OCMAW-20%G-10%O-35%W-35%M	1.683

Total Length: 120.00 ft

Total Volume: 1.683 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

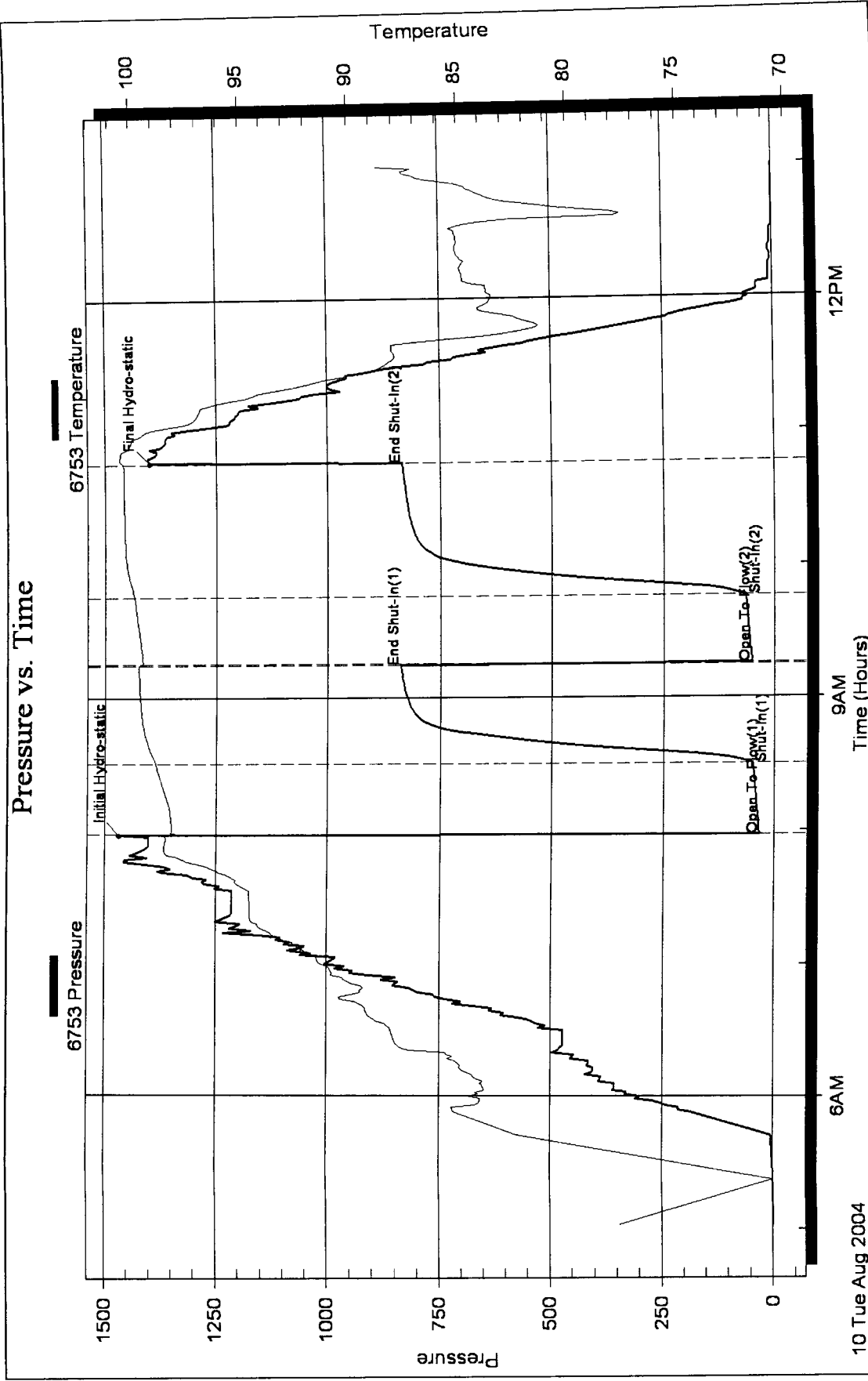
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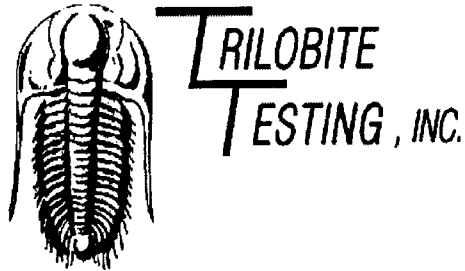
Serial #: 6753

Inside Double Eagle

7-14-12-Russell

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **Double Eagle**

800 W. 47th. St.Ste.318
Kansas City, MO. 64112

ATTN: Pat Deenihan

7-14-12-Russell

Laubhan #1

Start Date: 2004.08.10 @ 21:28:13

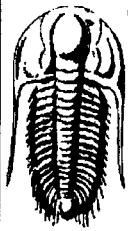
End Date: 2004.08.11 @ 07:05:13

Job Ticket #: 20328 DST #: 2

Trilobite Testing, Inc

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TRILOBITE
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DRILL STEM TEST REPORT

Double Eagle

800 W. 47th. St. Ste. 318
Kansas City, MO. 64112

ATTN: Pat Deenihan

Laubhan #1

7-14-12-Russell

Job Ticket: 20328

DST#: 2

Test Start: 2004.08.10 @ 21:28:13

GENERAL INFORMATION:

Formation: **Lansing 50'**

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

Time Tool Opened: 00:47:13

Time Test Ended: 07:05:13

Test Type: **Conventional Bottom Hole**

Tester: **Jason McEmore**

Unit No: **24**

Interval: **3006.00 ft (KB) To 3019.00 ft (KB) (TVD)**

Total Depth: **3019.00 ft (KB) (TVD)**

Hole Diameter: **7.80 inches** Hole Condition: **Good**

Reference Elevations: **1823.00 ft (KB)**

1818.00 ft (CF)

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

Serial #: 6753 **Inside**

Press@RunDepth: **77.21 psig @ 3008.00 ft (KB)**

Start Date: **2004.08.10**

End Date:

2004.08.11

Capacity: **7000.00 psig**

Last Calib.: **1899.12.30**

Start Time: **21:38:13**

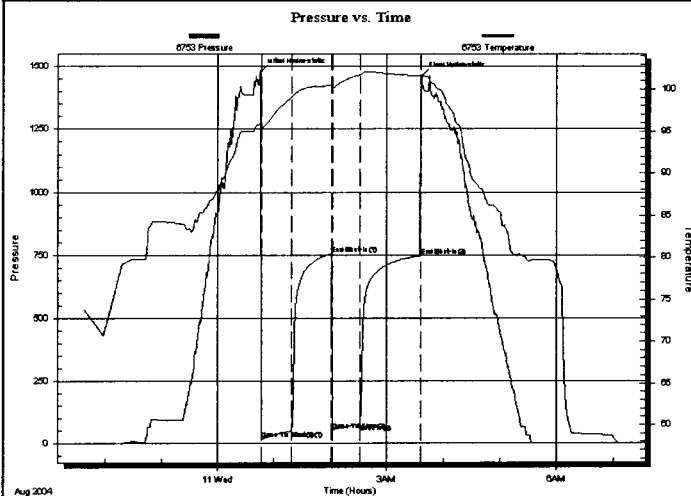
End Time:

07:05:13

Time On Btm: **2004.08.11 @ 00:46:43**

Time Off Btm: **2004.08.11 @ 03:36:13**

TEST COMMENT: **IFP-Good Blow , Built to 6"**
ISI-Dead
FFP-Weak Blow , Built to 3 "
FSI-Dead



PRESSURE SUMMARY

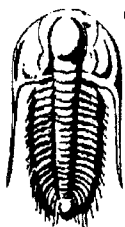
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1479.04	95.86	Initial Hydro-static
1	15.54	95.53	Open To Flow (1)
33	49.02	99.06	Shut-In(1)
75	754.37	100.42	End Shut-In(1)
76	51.95	100.23	Open To Flow (2)
105	77.21	101.73	Shut-In(2)
169	746.64	101.58	End Shut-In(2)
170	1461.07	101.75	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
130.00	Muddy Water, Oil in Tooljoint	1.82

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Double Eagle

Laubhan #1

800 W. 47th. St. Ste. 318
Kansas City, MO. 64112

7-14-12-Russell

Job Ticket: 20328

DST#: 2

ATTN: Pat Deenihan

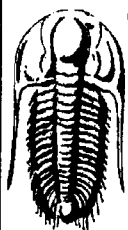
Test Start: 2004.08.10 @ 21:28:13

Tool Information

Drill Pipe:	Length:	3018.00 ft	Diameter:	3.80 inches	Volume:	42.33 bbl	Tool Weight:	2200.00 lb
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	2.25 inches	Volume:	0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length:	0.00 ft	Diameter:	2.25 inches	Volume:	0.00 bbl	Weight to Pull Loose:	32000.00 lb
					Total Volume:	42.33 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:		33.00 ft					String Weight: Initial	28000.00 lb
Depth to Top Packer:		3006.00 ft					Final	29000.00 lb
Depth to Bottom Packer:		ft						
Interval between Packers:		13.00 ft						
Tool Length:		34.00 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			2986.00	
Shut In Tool	5.00			2991.00	
Hydraulic tool	5.00			2996.00	
Packer	5.00			3001.00	21.00 Bottom Of Top Packer
Packer	5.00			3006.00	
Stubb	1.00			3007.00	
Perforations	1.00			3008.00	
Recorder	0.00	6753	Inside	3008.00	
Perforations	8.00			3016.00	
Recorder	0.00	13252	Outside	3016.00	
Bullnose	3.00			3019.00	13.00 Bottom Packers & Anchor

Total Tool Length: 34.00



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FLUID SUMMARY

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Laubhan #1

800 W. 47th. St. Ste. 318
Kansas City, MO. 64112

7-14-12-Russell

Job Ticket: 20328

DST#: 2

ATTN: Pat Deenihan

Test Start: 2004.08.10 @ 21:28:13

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:

24000 ppm

Viscosity: 40.00 sec/qt

Cushion Volume:

bbl

Water Loss: 11.18 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 7000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
130.00	Muddy Water, Oil in Tooljoint	1.824

Total Length: 130.00 ft

Total Volume: 1.824 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

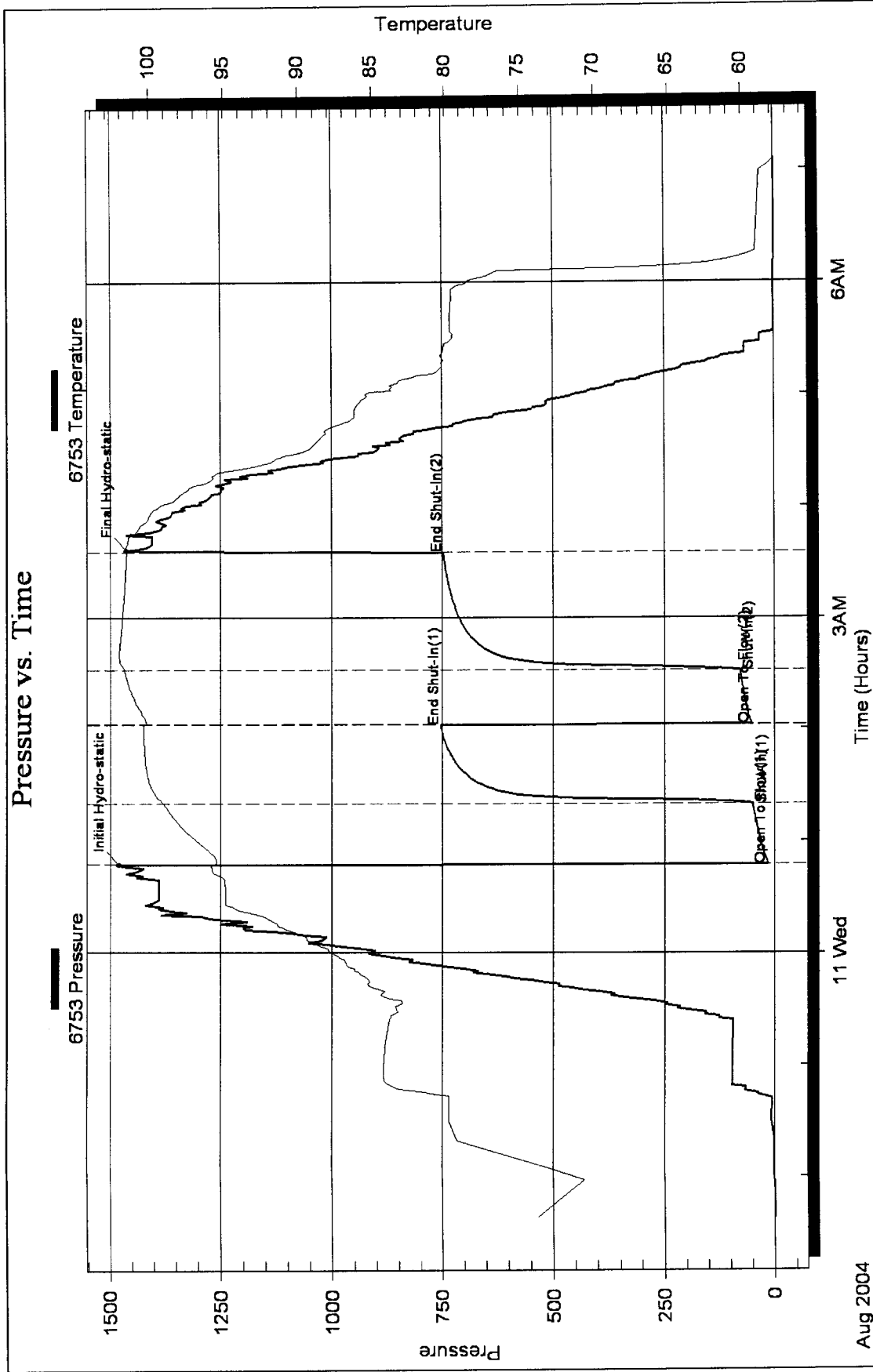
Recovery Comments:

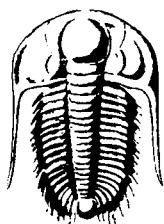
Serial #: 6753

Inside Double Eagle

7-14-12-Russell

DST Test Number: 2





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 20327

05/03

Test Ticket

Well Name & No. Laubhan #1 Test No. 1 Date 8-10-04
Company Double Eagle Zone Tested Lansing 30'
Address 800 W 47th St. Ste 318, Kansas City, Mo 64112 Elevation 1823 KB 1818 GL
Co. Rep / Geo. Pat Deenihan Cont. Berentz Est. Ft. of Pay _____ Por. _____ %
Location: Sec. 7 Twp. 14 Rge. 12 Co. Russell State Ks
No. of Copies Reg Distribution Sheet (Y, N) _____ Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested 2979 - 3005 Initial Str Wt./Lbs. 28,000 Unseated Str Wt./Lbs. 29,600
Anchor Length 26' Wt. Set Lbs. 20,000 Wt. Pulled Loose/Lbs. 50,000
Top Packer Depth 2974 Tool Weight 2,400
Bottom Packer Depth 2979 Hole Size 7 7/8" ✓ Rubber Size 6 3/4" ✓
Total Depth 3005 Wt. Pipe Run 0 Drill Collar Run 0
Mud Wt. 9.1 LCM TR Vis. 40 WL 11.2 Drill Pipe Size 4 1/2 KH Ft. Run 2986
Blow Description IFF - Fair Blow, Built to 5"
ISI - Dead
FFP - Fair Blow, Built to 7 1/2"
FSI - Surface Blowback for 6 min.

Recovery - Total Feet 120 GIP _____ Ft. in DC _____ Ft. in DP _____
Rec. 120 Feet of OC MW 20 %gas 10 %oil 35 %water 35 %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 100° °F Gravity _____ °API D @ _____ °F Corrected Gravity _____ °API
RW .22 @ 80 °F Chlorides 26,000 ppm Recovery _____ Chlorides 7,000 ppm System

AK-1	Alpine	Recorder No.	Test
(A) Initial Hydrostatic Mud	<u>1467</u> PSI	<u>6753</u>	<u>900</u>
(B) First Initial Flow Pressure	<u>33</u> PSI	(depth) <u>2982</u>	Elec. Rec. <u>✓</u>
(C) First Final Flow Pressure	<u>47</u> PSI	Recorder No. <u>13252</u>	Jars _____
(D) Initial Shut-In Pressure	<u>838</u> PSI	(depth) <u>3002</u>	Safety Jt. _____
(E) Second Initial Flow Pressure	<u>51</u> PSI	Recorder No. _____	Circ Sub _____
(F) Second Final Flow Pressure	<u>63</u> PSI	(depth) _____	Sampler _____
(G) Final Shut-In Pressure	<u>834</u> PSI	Initial Opening <u>30</u>	Straddle _____
(Q) Final Hydrostatic Mud	<u>1399</u> PSI	Initial Shut-In <u>45</u>	Ext. Packer _____
		Final Flow <u>30</u>	Shale Packer <u>59.5'</u>
		Final Shut-In <u>60</u>	Mileage <u>35</u> <u>1 way</u>
		T-On Location <u>4:10</u>	Sub Total: <u>959.50</u>
		T-Started <u>4:52</u>	Std. By <u>6hr</u> <u>15</u>
		T-Open <u>7:58</u>	Other _____
		T-Pulled <u>10:43</u>	Total: <u>974.50</u>
		T-Out <u>12:45</u>	

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Approved By Jason Mc Lemore Thank You
Our Representative Jason Mc Lemore

CHART PAGE

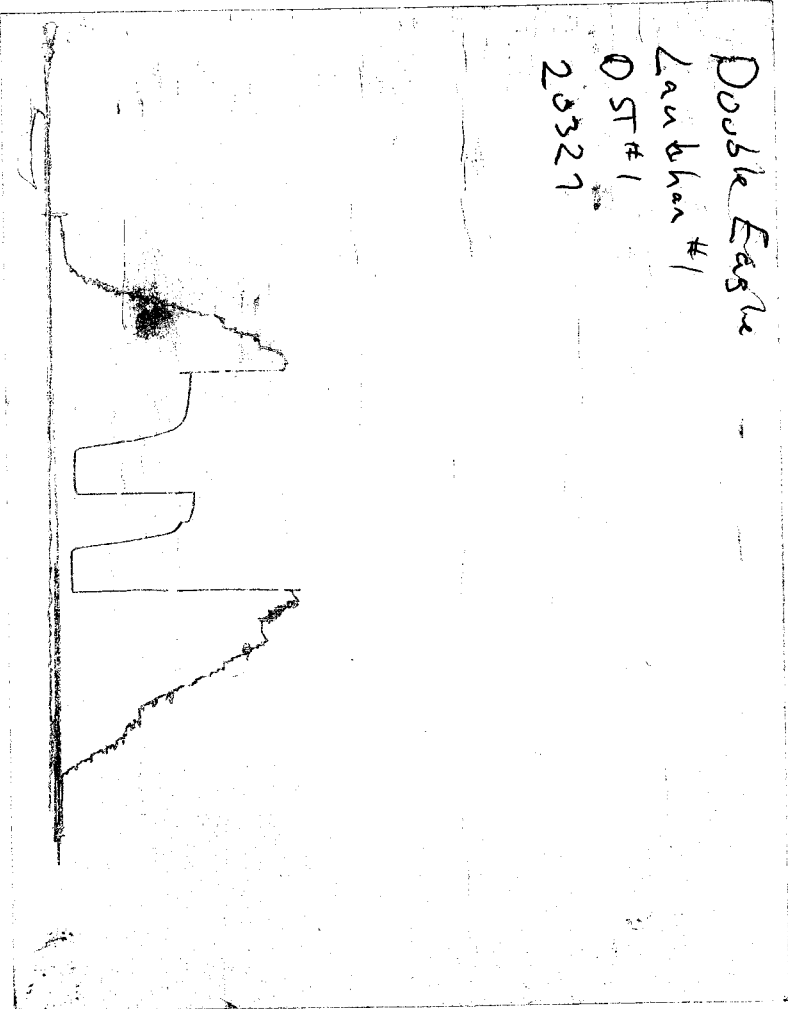
This is a photocopy of the actual AK-1 recorder chart

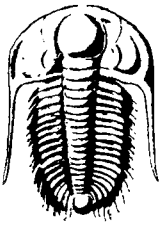
Double Eagle

Laubhan #1

OST #1

25327





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 20328

05/03

Test Ticket

Well Name & No. <u>Laubhan #1</u>	Test No. <u>2</u>	Date <u>8-10-04</u>
Company <u>Double Eagle</u>	Zone Tested <u>Lansing 50'</u>	
Address <u>800 W 47th st., Ste 318, Kansas City, Mo. 64112</u>	Elevation <u>1823</u>	KB <u>1818</u> GL
Co. Rep / Geo. <u>Pat Deenihan</u>	Cont. <u>Berentz</u>	Est. Ft. of Pay _____ Por. _____ %
Location: Sec. <u>7</u> Twp. <u>14</u> Rge. <u>12</u>	Co. <u>Russell</u>	State <u>Ks</u>
No. of Copies <u>Reg</u>	Disbtribution Sheet (Y, N) _____	Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested <u>3006 - 3019</u>	Initial Str Wt./Lbs. <u>28,000</u>	Unseated Str Wt/Lbs. <u>29,000</u>
Anchor Length <u>13'</u>	Wt. Set Lbs. <u>20,000</u>	Wt. Pulled Loose/Lbs. <u>32,000</u>
Top Packer Depth <u>3001</u>	Tool Weight <u>2200</u>	
Bottom Packer Depth <u>3006</u>	Hole Size <u>7 7/8"</u> ✓	Rubber Size <u>6 3/4"</u> ✓
Total Depth <u>3019</u>	Wt. Pipe Run <u>0</u>	Drill Collar Run <u>0</u>
Mud Wt. <u>9.1</u> LCM <u>Tr</u> Vis. <u>40</u> WL <u>11.2</u>	Drill Pipe Size <u>4 1/2 X 14</u>	Ft. Run <u>3018</u>
Blow Description <u>IFP - Good Blow, Built to 6"</u>		
<u>ISI - Dead</u>		
<u>FFP - Weak Blow, Built to 3"</u>		
<u>FSI - Dead</u>		

Recovery - Total Feet <u>130</u>	GIP _____	Ft. in DC _____	Ft. in DP _____
Rec. <u>130</u>	Feet of <u>Muddy Water</u>	%gas _____	%oil _____ %water _____ %mud _____
Rec. _____	Feet of <u>Oil in tool joint</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 _____
BHT <u>102°</u>	°F Gravity _____	°API D @ _____	°F Corrected Gravity _____ °API _____
RW <u>31</u>	@ <u>57</u> °F	Chlorides <u>24,000</u> ppm	Recovery _____ Chlorides <u>7,000</u> ppm System

(A) Initial Hydrostatic Mud	AK-1 <u>1479</u> PSI	Alpine <u>1479</u> PSI	Recorder No. <u>6753</u>	Test <u>✓</u>
(B) First Initial Flow Pressure	<u>16</u> PSI		(depth) <u>3008</u>	Elec. Rec. <u>✓</u>
(C) First Final Flow Pressure	<u>49</u> PSI		Recorder No. <u>13252</u>	Jars _____
(D) Initial Shut-In Pressure	<u>754</u> PSI		(depth) <u>3016</u>	Safety Jt. _____
(E) Second Initial Flow Pressure	<u>52</u> PSI		Recorder No. _____	Circ Sub _____
(F) Second Final Flow Pressure	<u>77</u> PSI		(depth) _____	Sampler _____
(G) Final Shut-In Pressure	<u>747</u> PSI	Initial Opening <u>30</u>		Straddle _____
(Q) Final Hydrostatic Mud	<u>1461</u> PSI	Initial Shut-In <u>45</u>		Ext. Packer _____
		Final Flow <u>30</u>		Shale Packer _____
		Final Shut-In <u>60</u>		Mileage <u>35</u> 1 way

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Approved By _____
Our Representative Jason Mc Lennan *Thank you*

T-On Location 20:00
T-Started 21:28
T-Open 00:46
T-Pulled 3:31
T-Out 6:25
Sub Total: 959.50
Std. By 2.5hrs 75
Total: 1034.50