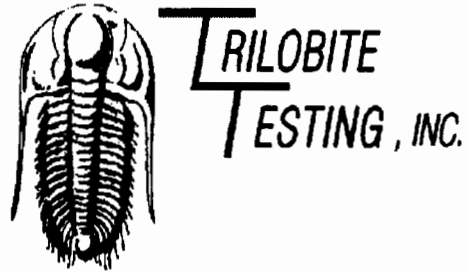


15-009-24880

9-16s-11w



DRILL STEM TEST REPORT

Prepared For: **Mai Oil Operations**

PO Box 33
Russell Ks 67665

ATTN: Mike Bair

9-16s11w-Barton

Hoffman Ranch 3-9

Start Date: 2005.11.13 @ 23:40:26

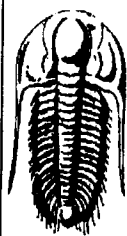
End Date: 2005.11.14 @ 06:55:56

Job Ticket #: 23342 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

Mai Oil Operations

PO Box 33
Russell Ks 67665

ATTN: Mike Bair

Hoffman Ranch 3-9

9-16s11w-Barton

Job Ticket: 23342

DST#: 1

Test Start: 2005.11.13 @ 23:40:26

GENERAL INFORMATION:

Formation: **ARB**

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

Time Tool Opened: 01:27:26

Time Test Ended: 06:55:56

Test Type: Conventional Bottom Hole

Tester: Joe

Unit No: 13

Interval: **3249.00 ft (KB) To 3316.00 ft (KB) (TVD)**

Total Depth: **3316.00 ft (KB) (TVD)**

Hole Diameter: **7.80 inches** Hole Condition: Fair

Reference Elevations: **1828.00 ft (KB)**

1823.00 ft (CF)

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

Serial #: **6799**

Inside

Press@RunDepth: **59.92 psig @ 3251.00 ft (KB)**

Start Date: **2005.11.13**

End Date:

2005.11.14

Start Time: **23:40:27**

End Time:

06:55:56

Capacity: **7000.00 psig**

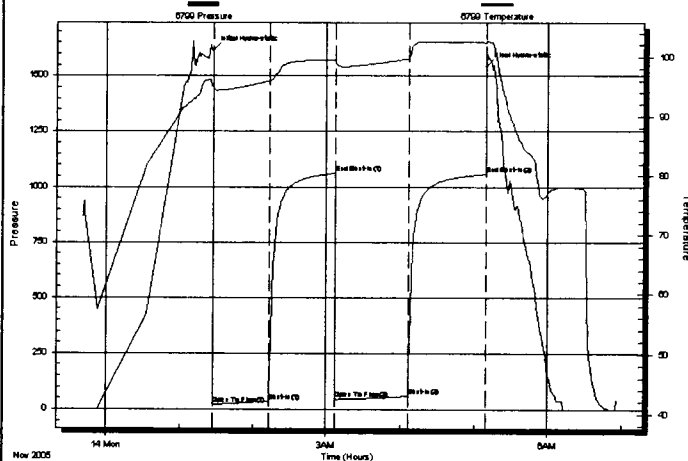
Last Calib.: **2005.11.14**

Time On Btm: **2005.11.14 @ 01:27:11**

Time Off Btm: **2005.11.14 @ 05:09:56**

TEST COMMENT: IF-Weak surface blow built to 2" in
IS- No Blow back
FF-Weak surface blow built to 1.5" in
FS- No Blow back

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1616.39	95.07	Initial Hydro-static
1	20.60	94.34	Open To Flow (1)
47	36.53	96.00	Shut-In(1)
101	1062.15	99.49	End Shut-In(1)
101	45.41	99.02	Open To Flow (2)
159	59.92	99.68	Shut-In(2)
223	1057.29	102.45	End Shut-In(2)
223	1543.80	102.71	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
62.00	OCM5%O95%M	0.59
16.00	Oily Mud 20%O80%M	0.22
45.00	Free Oil	0.63

Gas Rates

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Mai Oil Operations

Hoffman Ranch 3-9

PO Box 33
Russell Ks 67665

9-16s11w-Barton

Job Ticket: 23342

DST#: 1

ATTN: Mike Bair

Test Start: 2005.11.13 @ 23:40:26

Tool Information

Drill Pipe:	Length:	3203.00 ft	Diameter:	3.80 inches	Volume:	44.93 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	2.25 inches	Volume:	0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length:	31.00 ft	Diameter:	2.25 inches	Volume:	0.15 bbl	Weight to Pull Loose:	50000.00 lb
					Total Volume:	45.08 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:		5.00 ft					String Weight: Initial	48000.00 lb
Depth to Top Packer:		3249.00 ft					Final	48000.00 lb
Depth to Bottom Packer:		ft						
Interval between Packers:		67.00 ft						
Tool Length:		87.00 ft						
Number of Packers:		2	Diameter:	6.75 inches				

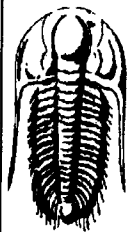
Tool Comments:

Tool Description

Length (ft) Serial No. Position Depth (ft) Accum. Lengths

Shut In Tool	5.00			3234.00		
Hydraulic tool	5.00			3239.00		
Packer	5.00			3244.00	20.00	Bottom Of Top Packer
Packer	5.00			3249.00		
Stubb	1.00			3250.00		
Change Over Sub	1.00			3251.00		
Recorder	0.00	6799	Inside	3251.00		
Blank Spacing	31.00			3282.00		
Change Over Sub	1.00			3283.00		
Recorder	0.00	13548	Inside	3283.00		
Perforations	30.00			3313.00		
Bullnose	3.00			3316.00	67.00	Bottom Packers & Anchor

Total Tool Length: 87.00



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Mai Oil Operations

Hoffman Ranch 3-9

PO Box 33
Russell Ks 67665

9-16s11w-Barton

Job Ticket: 23342

DST#: 1

ATTN: Mike Bair

Test Start: 2005.11.13 @ 23:40:26

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:

ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbl

Water Loss: 11.18 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
62.00	OCM5%O95%M	0.587
16.00	Oil Mud 20%O80%M	0.224
45.00	Free Oil	0.631

Total Length: 123.00 ft

Total Volume: 1.442 bbl

Num Fluid Samples: 0

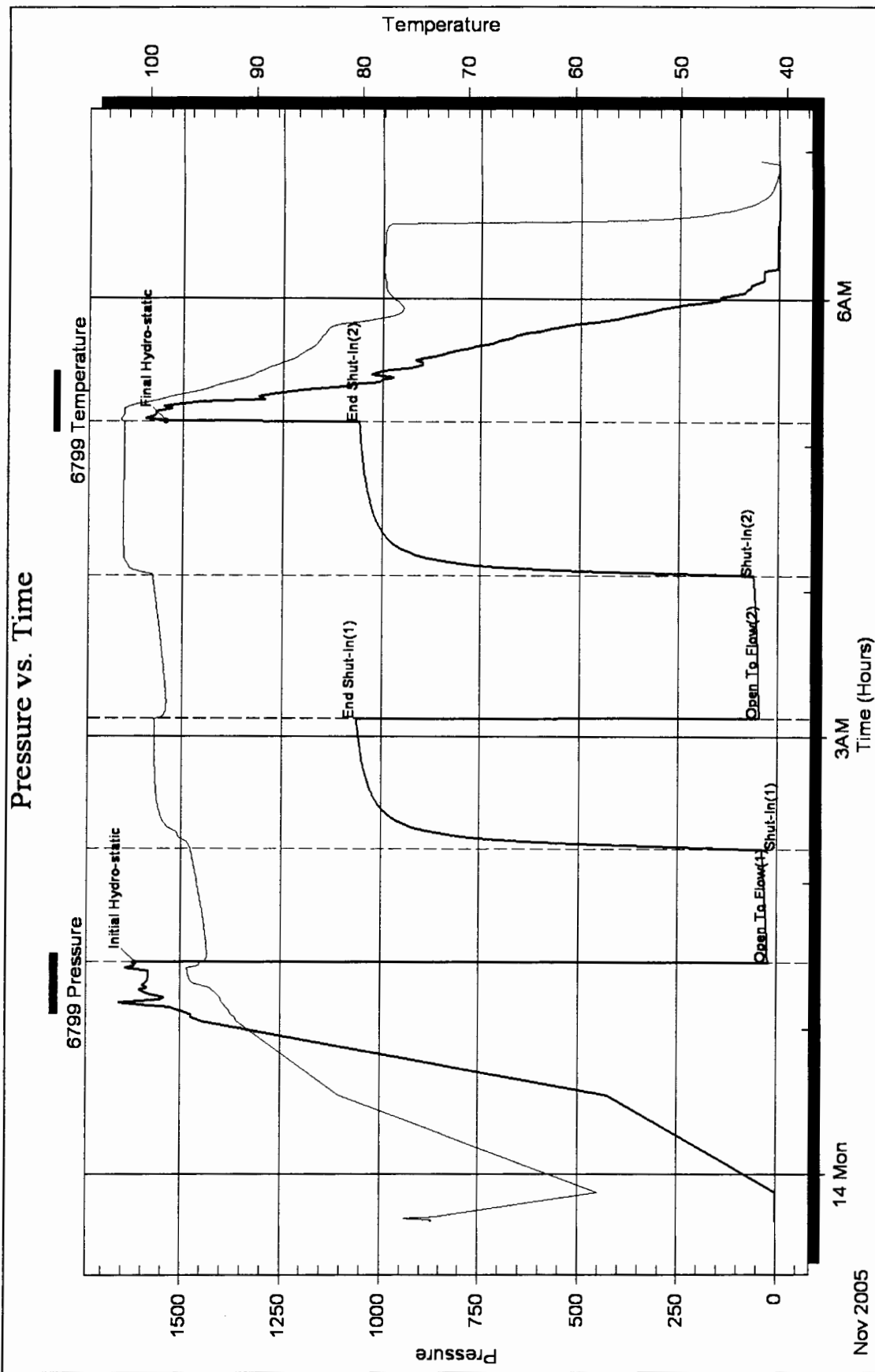
Num Gas Bombs: 0

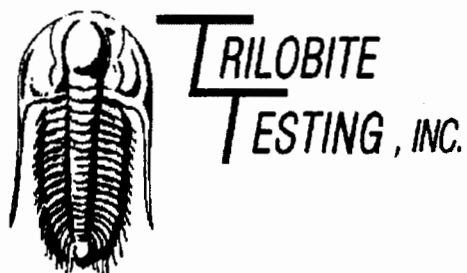
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





DRILL STEM TEST REPORT

Prepared For: **Mai Oil Operations**

PO Box 33
Russell Ks 67665

ATTN: Mike Bair

9-16s11w-Barton

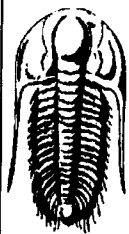
Hoffman Ranch 3-9

Start Date: 2005.11.14 @ 12:32:39

End Date: 2005.11.14 @ 19:57:54

Job Ticket #: 23343 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

Mai Oil Operations

PO Box 33
Russell Ks 67665

ATTN: Mike Bair

Hoffman Ranch 3-9

9-16s11w-Barton

Job Ticket: 23343

DST#: 2

Test Start: 2005.11.14 @ 12:32:39

GENERAL INFORMATION:

Formation: **ARB**

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

Time Tool Opened: 14:12:54

Time Test Ended: 19:57:54

Test Type: Conventional Bottom Hole

Tester: Joe

Unit No: 13

Interval: **3253.00 ft (KB) To 3322.00 ft (KB) (TVD)**

Total Depth: **3322.00 ft (KB) (TVD)**

Hole Diameter: **7.80 inches** Hole Condition: Fair

Reference Elevations: **1828.00 ft (KB)**

1823.00 ft (CF)

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

Serial #: **6799**

Inside

Press@RunDepth: **359.44 psig @ 3255.00 ft (KB)**

Start Date: **2005.11.14**

End Date:

2005.11.14

Start Time: **12:32:40**

End Time:

19:57:54

Capacity: **7000.00 psig**

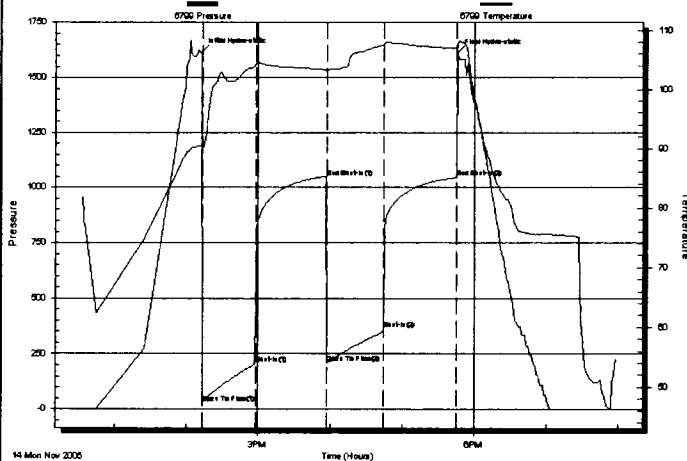
Last Calib.: **2005.11.14**

Time On Btm: **2005.11.14 @ 14:12:39**

Time Off Btm: **2005.11.14 @ 17:45:39**

TEST COMMENT: IF-Good Blow Built to BOB in 6min
IS-No Blow back
FF-Good Blow Blew Off BOB in 8 min
FSI-No Blow back

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1616.27	90.50	Initial Hydro-static
1	27.11	90.21	Open To Flow (1)
45	205.04	104.06	Shut-In(1)
104	1047.23	103.35	End Shut-In(1)
105	208.70	103.08	Open To Flow (2)
152	359.44	107.54	Shut-In(2)
213	1045.10	106.94	End Shut-In(2)
213	1614.67	107.39	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2.00	OyM5%O95%M	0.01
184.00	MyW10%M90%W	2.32
186.00	OCMyW2%O40%M58%W	2.61
434.00	OCMB8%M2%O	6.09
2.00	Free Oil	0.03

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Mai Oil Operations

Hoffman Ranch 3-9

PO Box 33
Russell Ks 67665

9-16s11w-Barton

Job Ticket: 23343

DST#: 2

ATTN: Mike Bair

Test Start: 2005.11.14 @ 12:32:39

Tool Information

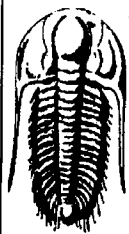
Drill Pipe:	Length: 3233.00 ft	Diameter: 3.80 inches	Volume: 45.35 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 31.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 52000.00 lb
			<u>Total Volume: 45.50 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	3253.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	69.00 ft			
Tool Length:	89.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Shut In Tool	5.00			3238.00	
Hydraulic tool	5.00			3243.00	
Packer	5.00			3248.00	20.00 Bottom Of Top Packer
Packer	5.00			3253.00	
Stubb	1.00			3254.00	
Change Over Sub	1.00			3255.00	
Recorder	0.00	6799	Inside	3255.00	
Blank Spacing	31.00			3286.00	
Change Over Sub	1.00			3287.00	
Recorder	0.00	13548	Inside	3287.00	
Perforations	32.00			3319.00	
Bullnose	3.00			3322.00	69.00 Bottom Packers & Anchor

Total Tool Length: 89.00



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Mai Oil Operations

Hoffman Ranch 3-9

PO Box 33
Russell Ks 67665

9-16s11w-Barton

Job Ticket: 23343

DST#: 2

ATTN: Mike Bair

Test Start: 2005.11.14 @ 12:32:39

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:

7300 ppm

Viscosity: 59.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.38 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2.00	OyM5%O95%M	0.010
184.00	MyW10%M90%W	2.317
186.00	OCMyW2%O40%M58%W	2.609
434.00	OCM98%M2%O	6.088
2.00	Free Oil	0.028

Total Length: 808.00 ft

Total Volume: 11.052 bbl

Num Fluid Samples: 0

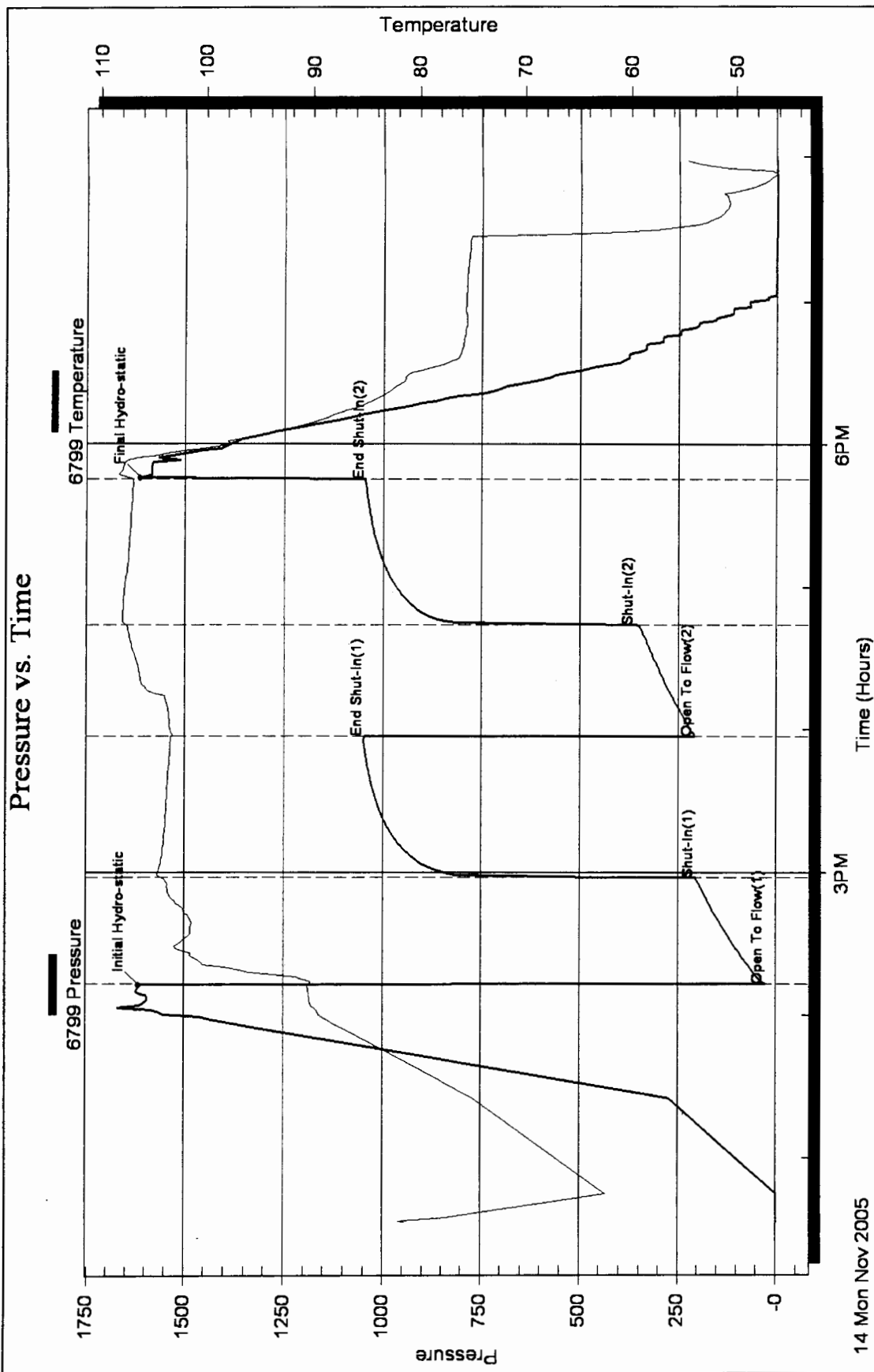
Num Gas Bombs: 0

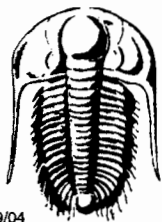
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 23342

8/23

9/04

Test Ticket

Well Name & No.	Hoffman Ranch 3-9	Test No.	1	Date	11-12-05
Company	Mar Operations	Zone Tested	Arb		
Address	PO Box 33 Russell ks 67665	Elevation	1828	KB	1523
Co. Rep / Geo.	Mike Bair	Cont.	Murfin LG	Est. Ft. of Pay	Por. %
Location: Sec.	9	Twp.	16S	Rge.	11W
		Co.	Barton	State	KS
No. of Copies		Disbtribution Sheet (Y, N)		Turnkey (Y, N)	
		Evaluation (Y, N)			

Interval Tested	3249-3316	Initial Str Wt./Lbs.	48000	Unseated Str Wt./Lbs.	45000
Anchor Length	67	Wt. Set Lbs.	25000	Wt. Pulled Loose/Lbs.	50000
Top Packer Depth	3244	Tool Weight	2000		
Bottom Packer Depth	3249	Hole Size 7 7/8"	✓	Rubber Size 6 3/4"	✓
Total Depth		Wt. Pipe Run		Drill Collar Run	3
Mud Wt.	9.4	Drill Pipe Size	4 1/2 XH	Ft. Run	3203
LCM	1				
Vis.	56				
WL	11.2				
Blow Description	IF- Weak surface Blow Built to 2" in IST - NO Blow Back FF- Weak surface Blow Built to 1 1/2" in IST - NO Blow Back				

Recovery - Total Feet	123	GIP		Ft. in DC		Ft. in DP	
Rec.	45	Feet of	Free Oil	%gas	100%	%oil	%water %mud
Rec.	16	Feet of	Oil & Mud	%gas	20	%oil	%water 80 %mud
Rec.	62	Feet of	Oil cut Mud	%gas	5	%oil	%water 95 %mud
Rec.		Feet of		%gas		%oil	%water %mud
Rec.		Feet of		%gas		%oil	%water %mud
BHT	102	*F Gravity	38	*API D @	50	*F Corrected Gravity	37 *API
RW		@	*F	Chlorides	ppm Recovery	Chlorides	ppm System

(A) Initial Hydrostatic Mud	AK-1	Alpine	1616	PSI	Recorder No.	6799	Test	✓	1000
(B) First Initial Flow Pressure			21	PSI	(depth)	3251	Jars		
(C) First Final Flow Pressure			37	PSI	Recorder No.		Safety Jt.		
(D) Initial Shut-In Pressure			1062	PSI	(depth)		Circ Sub		
(E) Second Initial Flow Pressure			45	PSI	Recorder No.	13548	Sampler		
(F) Second Final Flow Pressure			60	PSI	(depth)	3313 3283	Straddle		
(G) Final Shut-In Pressure			1057	PSI	Initial Opening	45	Ext. Packer		
(Q) Final Hydrostatic Mud			1544	PSI	Initial Shut-In	60	Shale Packer		

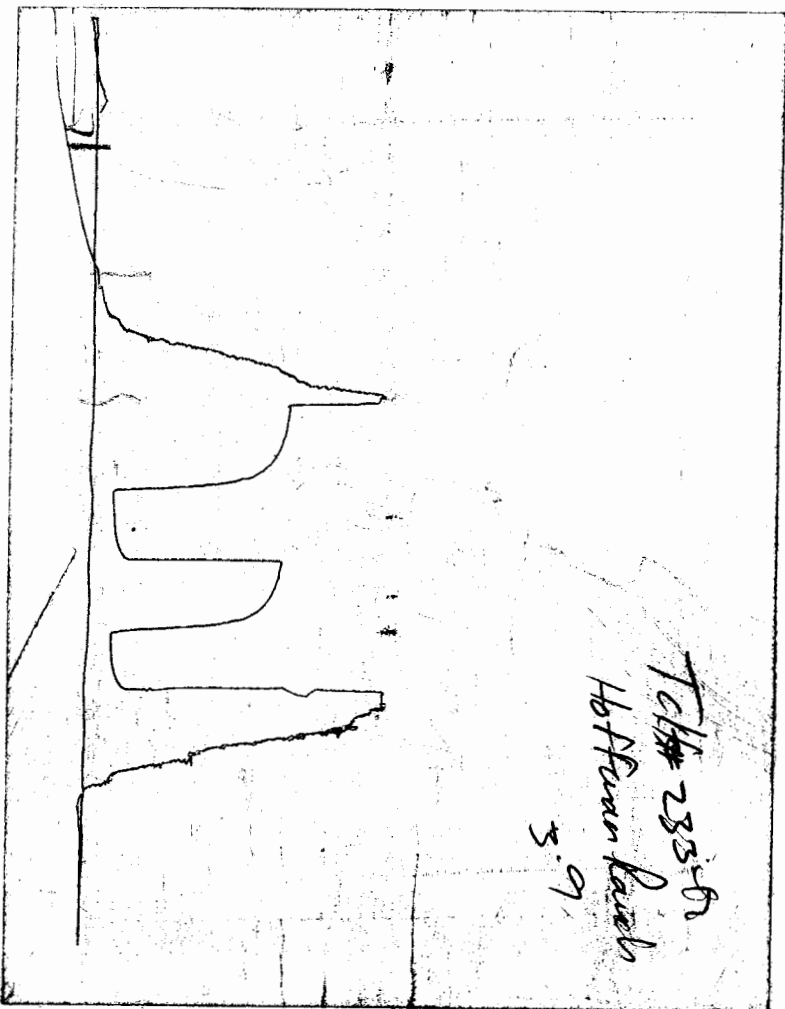
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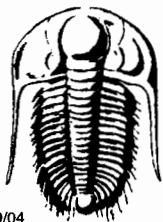
Approved By [Signature]
Our Representative [Signature]

Final Flow	45	Test	✓	1000
Final Shut-In	60	Jars		
T-On Location	22:30	Safety Jt.		
T-Started	23:40	Circ Sub		
T-Open	1:27	Sampler		
T-Pulled	5:00	Straddle		
T-Out	6:30	Ext. Packer		
		Shale Packer		
		Ruined Packer		
		Mileage	130 RT	130
		Sub Total:		1130
		Std. By		
		Other		
		Total:		

CHART PAGE

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





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 23343

9/04

Test Ticket

Well Name & No. <u>Hoffman Ranch 3-9</u>	Test No. <u>2</u>	Date <u>11/14/05</u>
Company <u>Ma: Oil Operations</u>	Zone Tested <u>Arb</u>	
Address _____	Elevation <u>1828</u>	KB <u>1823</u> GL
Co. Rep / Geo. <u>Mike Bair</u>	Cont. <u>Murfin 16</u>	Est. Ft. of Pay _____ Por. _____ %
Location: Sec. <u>9</u> Twp. <u>16S</u> Rge. <u>11W</u> Co. <u>Barton</u> State <u>Ks</u>		
No. of Copies _____	Disbtribution Sheet (Y, N) _____	Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested <u>3253 - 3322</u>	Initial Str Wt./Lbs. <u>49000</u>	Unseated Str Wt./Lbs. <u>52000</u>
Anchor Length <u>69</u>	Wt. Set Lbs. <u>25000</u>	Wt. Pulled Loose/Lbs. <u>52000</u>
Top Packer Depth <u>3248</u>	Tool Weight <u>2000</u>	
Bottom Packer Depth <u>3253</u>	Hole Size <u>7 7/8"</u> ✓	Rubber Size <u>6 3/4"</u> ✓
Total Depth <u>3322</u>	Wt. Pipe Run _____	Drill Collar Run <u>31</u>
Mud Wt. <u>9.4</u> LCM <u>1 1/2</u> Vis. <u>59</u> WL <u>9.4</u>	Drill Pipe Size <u>4 1/2 XH</u>	Ft. Run <u>3233</u>
Blow Description <u>IF - Good Blow Built to BOB in 6 min ISI. No Blow back</u>		
<u>FF - Good Blow Blew off BOB in 8 min FF ISI. No Blow Back</u>		

Recovery - Total Feet <u>868</u>	GIP _____	Ft. in DC _____	Ft. in DP _____
Rec. <u>2</u>	Feet of <u>Og Mud</u>	%gas <u>5</u> %oil _____ %water <u>95</u> %mud _____	
Rec. <u>184</u>	Feet of <u>MyW</u>	%gas _____ %oil <u>90</u> %water <u>10</u> %mud _____	
Rec. <u>186</u>	Feet of <u>OC MyW</u>	%gas <u>2</u> %oil <u>58</u> %water <u>40</u> %mud _____	
Rec. <u>434</u>	Feet of <u>OCM</u>	%gas <u>2</u> %oil _____ %water <u>98</u> %mud _____	
Rec. <u>2</u>	Feet of <u>Free Oil</u>	%gas <u>100</u> %oil _____ %water _____ %mud _____	
BHT <u>107</u>	*F Gravity <u>38</u>	*API D @ <u>50</u>	*F Corrected Gravity <u>37</u> *API _____
RW <u>1.1</u> @ <u>53</u> *F	Chlorides _____ ppm	Recovery <u>7300</u> Chlorides _____ ppm	System _____

(A) Initial Hydrostatic Mud	AK-1 <u>164</u> PSI	Alpine <u>16799</u>	Recorder No. <u>16799</u>	Test <u>✓</u> <u>-1000</u>
(B) First Initial Flow Pressure	<u>27</u> PSI	(depth) <u>3255</u>	Jars _____	
(C) First Final Flow Pressure	<u>205</u> PSI	Recorder No. _____	Safety Jt. _____	
(D) Initial Shut-In Pressure	<u>1047</u> PSI	(depth) _____	Circ Sub _____	
(E) Second Initial Flow Pressure	<u>209</u> PSI	Recorder No. <u>13548</u>	Sampler _____	
(F) Second Final Flow Pressure	<u>359</u> PSI	(depth) <u>3297</u>	Straddle _____	
(G) Final Shut-In Pressure	<u>1045</u> PSI	Initial Opening <u>45</u>	Ext. Packer _____	
(Q) Final Hydrostatic Mud	<u>1615</u> PSI	Initial Shut-In <u>60</u>	Shale Packer _____	
		Final Flow <u>45</u>	Ruined Packer _____	
		Final Shut-In <u>60</u>	Mileage <u>130 Rt</u> <u>130</u>	
		T-On Location <u>22:30</u>	Sub Total: <u>1130</u>	
		T-Started <u>12:32</u>	Std. By <u>✓</u>	
		T-Open <u>14:14</u>	Other _____	
		T-Pulled <u>17:44</u>	Total: _____	
		T-Out <u>19:30</u>		

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Approved By [Signature]

Our Representative [Signature]

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

