

DRILL STEM TEST REPORT

Prepared For: **Dark Horse Oil Co**

34861 Forest Park Drive
Elizabeth CO 80107-7879

ATTN: Douglas Frickey

29-10s-32w Thomas KS

Karlin Trust #1-29

Start Date: 2001.07.24 @ 05:12:49

End Date: 2001.07.24 @ 12:38:18

Job Ticket #: 14866 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

 Dark Horse Oil Co
 34861 Forest park Drive
 Elizabeth Co 80107-7879

ATTN: douglas Frickey

Karlin Trust #1-29

29-10s-32w Thomas Ks

Job Ticket: 14866

DST#: 1

Test Start: 2001.07.24 @ 05:12:49

GENERAL INFORMATION:

Formation: Lansing "E"

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:52:48

Time Test Ended: 12:38:18

Test Type: Conventional Bottom Hole

Tester: Ray Schwager

Unit No: 16

Interval: 4087.00 ft (KB) To 4097.00 ft (KB) (TVD)

Total Depth: 4097.00 ft (KB) (TVD)

Hole Diameter: 7.85 inches Hole Condition: Fair

Reference Elevations: 3061.00 ft (KB)

3056.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 3024

Press@RunDepth: 127.98 psig @ ft (KB)

Start Date: 2001.07.24

End Date: 2001.07.24

Capacity: 7000.00 psig

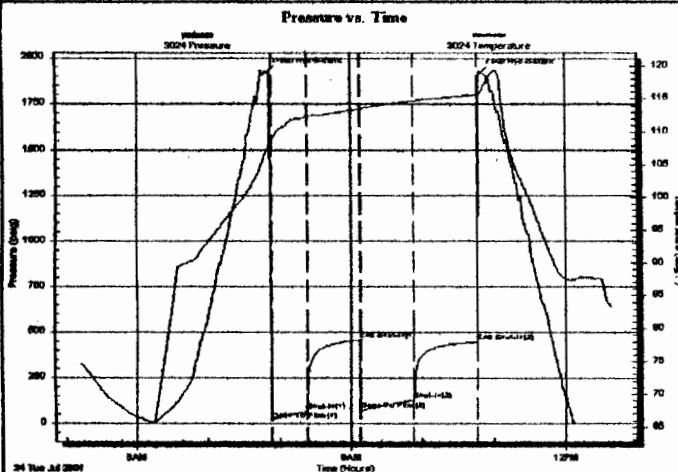
Last Calib.: 2001.07.24

Start Time: 05:12:49

End Time: 12:38:18

Time On Btm: 2001.07.24 @ 07:49:48

Time Off Btm: 2001.07.24 @ 10:48:48

 TEST COMMENT: FFP-wk bl throughout 1/4" to 2" bl FFP-wk bl 1/4" to 1" bl
 times-30-45-45-60

PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1920.34	107.70	Initial Hydro-static
3	17.47	108.65	Open To Flow (1)
33	63.77	112.27	Shut-In (1)
78	458.71	113.40	End Shut-In (1)
78	68.00	113.42	Open To Flow (2)
123	127.98	114.68	Shut-In (2)
177	448.77	115.60	End Shut-In (2)
179	1919.19	115.95	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
80.00	MW 30% mud 70% water RW.09 @ 91	0.39
180.00	water	0.89

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Dark Horse Oil Co

Karlin Trust #1-29

34861 Forest Park Drive
Elizabeth CO 80107-7879

29-10s-32w Thomas KS

Job Ticket: 14866

DST#: 1

ATTN: Douglas Frickey

Test Start: 2001.07.24 @ 05:12:49

Tool Information

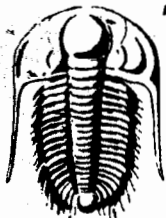
Drill Pipe:	Length: 3643.00 ft	Diameter: 3.80 inches	Volume: 51.10 bbl	Tool Weight: 2800.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 446.00 ft	Diameter: 2.25 inches	Volume: 2.19 bbl	Weight to Pull Loose: 70000.00 lb
		Total Volume:	53.29 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	4087.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	10.01 ft			
Tool Length:	38.01 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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C.O. Sub	1.00			4060.00	
S.I. Tool	5.00			4065.00	
HMV	5.00			4070.00	
Jars	5.00			4075.00	
Safety Joint	2.00			4077.00	
Packer	5.00			4082.00	28.00 Bottom Of Top Packer
Packer	5.00			4087.00	
Stubb	1.00			4088.00	
Recorder	0.01	3024	Inside	4088.01	
Perforations	6.00			4094.01	
Bullnose	3.00			4097.01	10.01 Bottom Packers & Anchor

Total Tool Length: 38.01



TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

ORIGINAL

14866

Test Ticket

Well Name & No. KARLIN TRUST #1-29 Test No. 1 Date 7-24-01
 Company DARK HORSE OIL COMPANY Zone Tested LANSING "E"
 Address 34861 FOREST PARK DRIVE ELIZABETH, CO 80107-7879 Elevation 3061 KB 3056 GL
 Co. Rep / Geo. PAUL GUNZELMAN Cont. MURFIN rig 3 Est. Ft. of Pay - Por. - %
 Location: Sec. 29 Twp. 10^s Rge. 32^w Co. THOMAS State KO
 No. of Copies Reg Distribution Sheet (Y, N) - Turnkey (Y, N) - Evaluation (Y, N) -

Interval Tested 4087 - 4097 Initial Str Wt./Lbs. 52000 Unseated Str Wt./Lbs. 52000
 Anchor Length 10 Wt. Set Lbs. 25000 Wt. Pulled Loose/Lbs. 70000
 Top Packer Depth 4082 Tool Weight 2800
 Bottom Packer Depth 4087 Hole Size — 7 7/8" yes Rubber Size — 6 3/4" yes
 Total Depth 4097 Wt. Pipe Run - Drill Collar Run 446
 Mud Wt. 8.8 LCM - Vis. 47 WL 7.6 Drill Pipe Size 4 1/2 X H Ft. Run 3643
 Blow Description IFP - WEAK BLOW THROUGHOUT 1/4" TO 2" BLOW
FFP - WEAK BLOW THROUGHOUT 1/4" TO 1" BLOW

Recovery — Total Feet 260 GIP - Ft. in DC 260 Ft. in DP -
 Rec. 80 Feet Of MW w/show of oil %gas - %oil - %water 70 %mud 30
 Rec. 180 Feet Of WATER %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 115 °F Gravity - °API D@ - °F Corrected Gravity - °API
 RW .09 @ 91 °F Chlorides 65000 ppm Recovery Chlorides 1600 ppm System

	AK-1	Alpine	PSI	Recorder No.	T-On Location
(A) Initial Hydrostatic Mud		<u>1920</u>		<u>3024</u>	<u>0300</u>
(B) First Initial Flow Pressure		<u>17</u>	PSI (depth)	<u>4088</u>	<u>0510</u>
(C) First Final Flow Pressure		<u>63</u>	PSI Recorder No.	<u>-</u>	<u>0750</u>
(D) Initial Shut-In Pressure		<u>458</u>	PSI (depth)	<u>-</u>	<u>1045</u>
(E) Second Initial Flow Pressure		<u>68</u>	PSI Recorder No.	<u>-</u>	<u>1230</u>
(F) Second Final Flow Pressure		<u>127</u>	PSI (depth)	<u>-</u>	<u>-</u>
(G) Final Shut-in Pressure		<u>448</u>	PSI Initial Opening	<u>30</u>	Test ☒
(Q) Final Hydrostatic Mud		<u>1919</u>	PSI Initial Shut-in	<u>45</u>	Jars ☒
			Final Flow	<u>45</u>	Safety Joint ☒
			Final Shut-in	<u>556</u>	Straddle <u>-</u>

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Approved By Paul Gunzman

Our Representative Ray Schwager Thank You

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Extra Packer -
 Elec. Rec. ☒
 Mileage 55
 Other -
 TOTAL PRICE \$ -

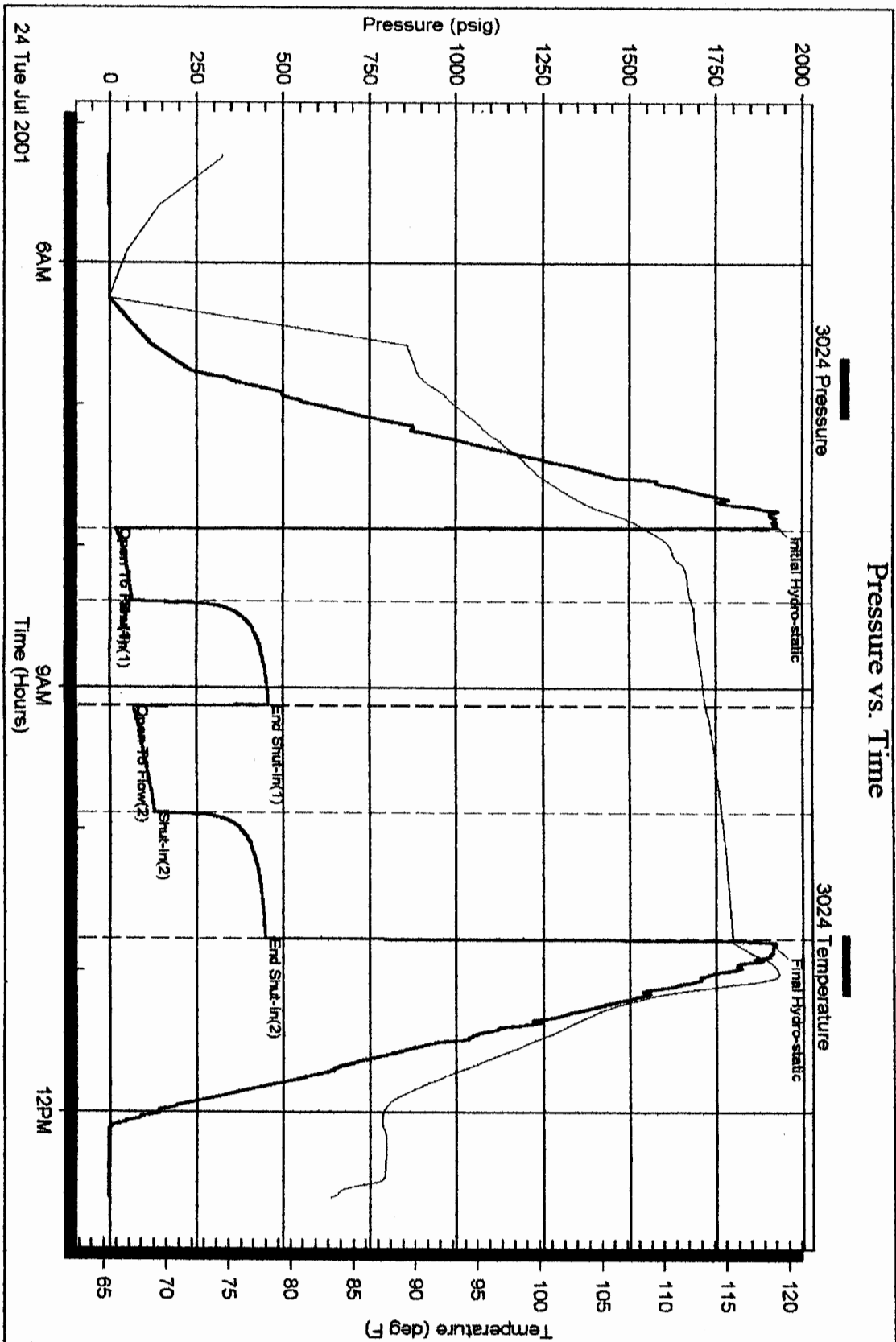
ORIGINAL

Serial #: 3024

Dark Horse Oil Co

29-10s-32w Thomas Ks

DST Test Number: 1



Timballe Testing, Inc

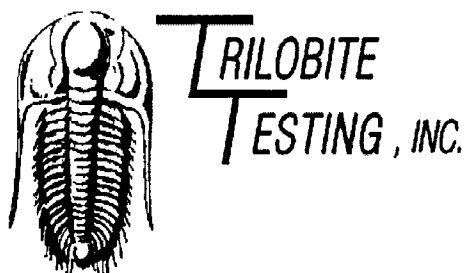
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DRILL STEM TEST REPORT

Prepared For: **Dark Horse Oil Co**

34861 Forest Park Drive
Elizabeth CO 80107-7879

ATTN: Douglas Frickey

29-10s-32w Thomas KS

Karlin Trust #1-29

Start Date: 2001.07.25 @ 04:08:06

End Date: 2001.07.25 @ 10:14:35

Job Ticket #: 14867 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

Dark Horse Oil Co

Karlín Trust #1-29

34861 Forest park Drive
Elizabeth Co 80107-7879

29-10s-32w Thomas Ks

Job Ticket: 14867

DST#: 2

ATTN: douglas Frickey

Test Start: 2001.07.25 @ 04:08:06

GENERAL INFORMATION:

Formation: KC H-J zones

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:22:35

Time Test Ended: 10:14:35

Test Type: Conventional Bottom Hole

Tester: Ray Schwager

Unit No: 16

Interval: 4158.00 ft (KB) To 4232.00 ft (KB) (TVD)

Total Depth: 4097.00 ft (KB) (TVD)

Hole Diameter: 7.85 inches Hole Condition: Fair

Reference Elevations: 3061.00 ft (KB)

3056.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 3024

Press@RunDepth: 32.17 psig @ ft (KB)

Start Date: 2001.07.25

End Date:

2001.07.25

Capacity: 7000.00 psig

Last Calib.: 2001.07.25

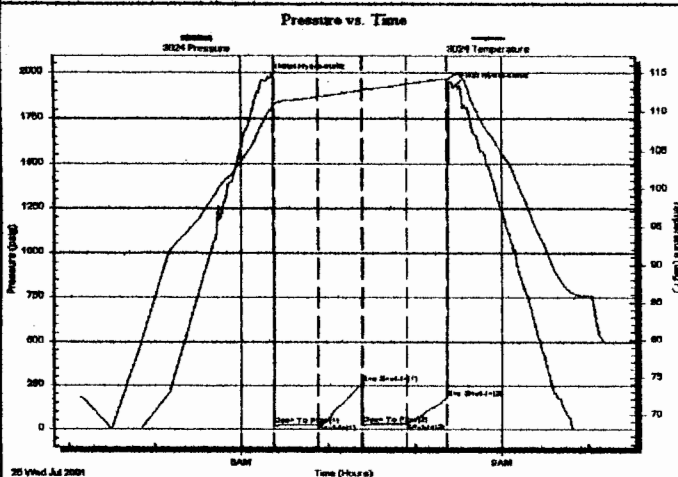
Start Time: 04:08:06

End Time:

10:14:35

Time On Btm: 2001.07.25 @ 06:19:05

Time Off Btm: 2001.07.25 @ 08:27:05

TEST COMMENT: FFP-w k bl throughout 1/4"bl FFP-no bl
times 30-30-30-30

PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1971.24	110.10	Initial Hydro-static
4	22.31	110.97	Open To Flow (1)
34	26.60	111.94	Shut-In (1)
64	261.12	112.84	End Shut-In (1)
65	27.94	112.89	Open To Flow (2)
95	32.17	113.63	Shut-In (2)
123	177.29	114.34	End Shut-In (2)
128	1920.50	114.87	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	mud	0.10

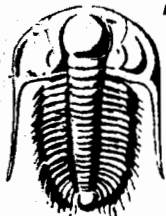
Gas Rates

Choke (Inches)	Pressure (psig)	Gas Rate (Mc/d)
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TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

ORIGINAL

11 14867

Test Ticket

Well Name & No. KARLIN TRUST #1-29 Test No. 2 Date 7-25-01
 Company DARK HORSE OIL Co Zone Tested KC H-I+J
 Address 34861 Forest Park Drive Elizabeth, Co 80107-7879 Elevation 3061 KB 3056 GL
 Co. Rep / Geo. PAUL GUNZELMAN Cont. MURFIN rig 3 Est. Ft. of Pay - Por. - %
 Location: Sec. 29 Twp. 10^s Rge. 32^w Co. Thomas State Ko
 No. of Copies Reg Distribution Sheet (Y, N) - Turnkey (Y, N) - Evaluation (Y, N) -

Interval Tested 4158-4232 Initial Str Wt./Lbs. 53000 Unseated Str Wt./Lbs. 53000
 Anchor Length 74 Wt. Set Lbs. 25000 Wt. Pulled Loose/Lbs. 70000
 Top Packer Depth 4153 Tool Weight 2300
 Bottom Packer Depth 4158 Hole Size — 7 7/8" 405 Rubber Size — 6 3/4" 405
 Total Depth 4232 Wt. Pipe Run - Drill Collar Run 446
 Mud Wt. 8.8 LCM - Vis. 43 WL 8.8 Drill Pipe Size 4 1/2 X H Ft. Run 3703
 Blow Description IFP-WEAK Blow throughout 1/4" Blow
FFP- NO BLOW

Recovery — Total Feet 20 GIP - Ft. in DC 20 Ft. in DP -
 Rec. 20 Feet Of Mud %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
 Rec. Feet Of %gas %oil %water %mud
 BHT 114 °F Gravity - °API D@ - °F Corrected Gravity - °API
 RW - @ - °F Chlorides - ppm Recovery Chlorides 2800 ppm System

	AK-1	Alpine	PSI	Recorder No.	T-On Location
(A) Initial Hydrostatic Mud		<u>1971</u>		<u>3024</u>	<u>0300</u>
(B) First Initial Flow Pressure		<u>22</u>	PSI (depth)	<u>4159</u>	T-Started <u>0408</u>
(C) First Final Flow Pressure		<u>26</u>	PSI Recorder No.	<u>11085</u>	T-Open <u>0620</u>
(D) Initial Shut-In Pressure		<u>261</u>	PSI (depth)	<u>4229</u>	T-Pulled <u>0820</u>
(E) Second Initial Flow Pressure		<u>27</u>	PSI Recorder No.	<u>-</u>	T-Out <u>1010</u>
(F) Second Final Flow Pressure		<u>32</u>	PSI (depth)	<u>-</u>	T-Off Location <u>1045</u>
(G) Final Shut-in Pressure		<u>177</u>	PSI Initial Opening	<u>30</u>	Test ☒
(Q) Final Hydrostatic Mud		<u>1920</u>	PSI Initial Shut-in	<u>30</u>	Jars <u>-</u>
			Final Flow	<u>30</u>	Safety Joint ☒
			Final Shut-in	<u>30</u>	Straddle <u>-</u>

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Approved By [Signature]

Our Representative RAY SCHWINGER Thank you

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KCC WICHITA

Sampler -
 Extra Packer -
 Elec. Rec. ☒
 Mileage ✓6
 Other -
 TOTAL PRICE \$ ✓

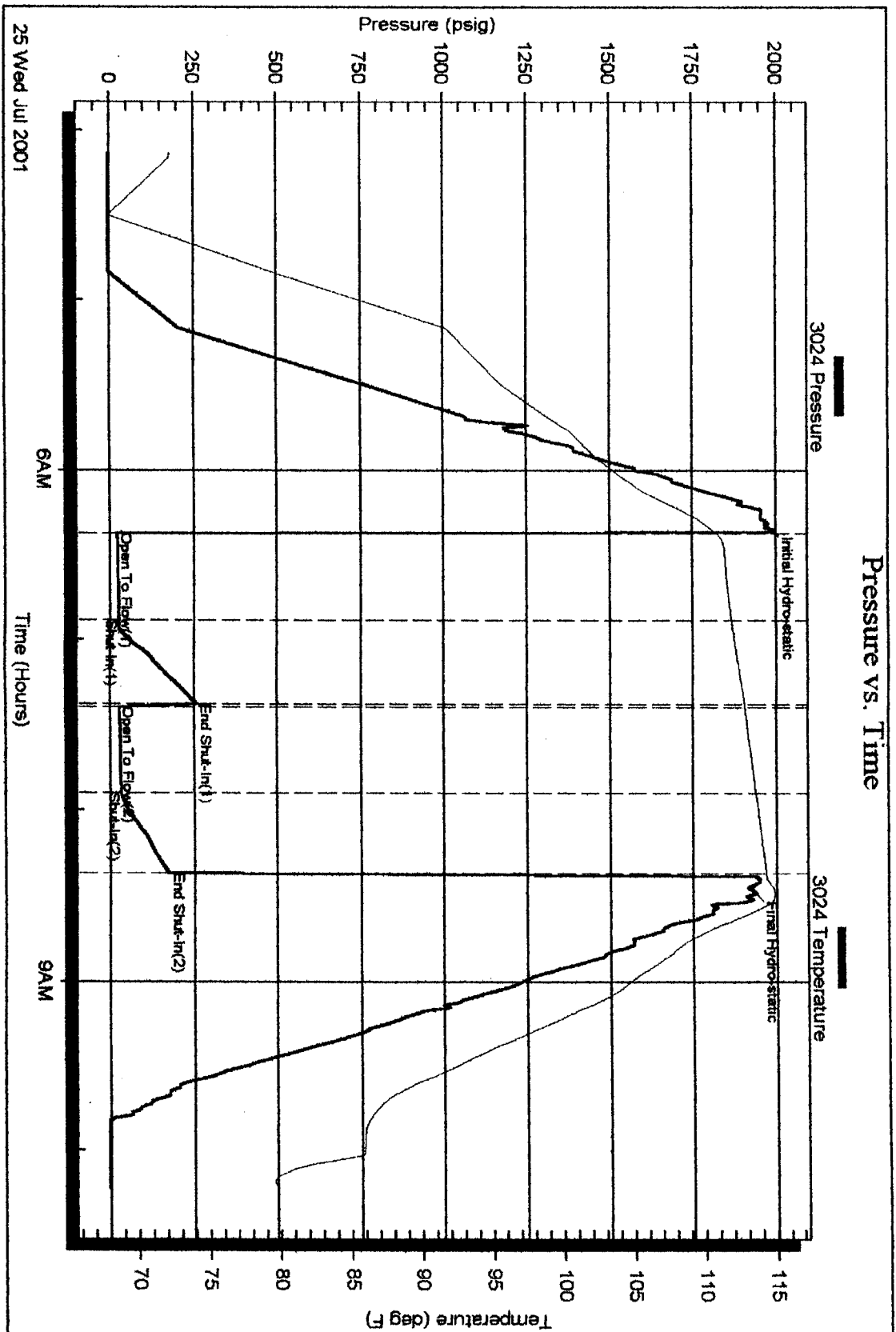
ORIGINAL

Serial #: 3024

Dark Horse Oil Co

29-10s-32w Thomas KS

DST Test Number: 2



Triotech Testing, Inc

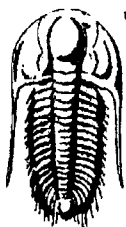
Ref. No: 14867

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TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Dark Horse Oil Co
34861 Forest Park Drive
Elizabeth CO 80107-7879
ATTN: Douglas Frickey

Karlin Trust #1-29
29-10s-32w Thomas KS
Job Ticket: 14867 **DST#: 2**
Test Start: 2001.07.25 @ 04:08:06

Tool Information

Drill Pipe:	Length: 3703.00 ft	Diameter: 3.80 inches	Volume: 51.94 bbl	Tool Weight: 2800.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 446.00 ft	Diameter: 2.25 inches	Volume: 2.19 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 54.13 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	14.00 ft			String Weight: Initial 53000.00 lb
Depth to Top Packer:	4158.00 ft			Final 53000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	74.02 ft			
Tool Length:	97.02 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			4136.00	
S.I. Tool	5.00			4141.00	
HMV	5.00			4146.00	
Safety Joint	2.00			4148.00	
Packer	5.00			4153.00	23.00 Bottom Of Top Packer
Packer	5.00			4158.00	
Stubb	1.00			4159.00	
Recorder	0.01	3024	Inside	4159.01	
Perforations	8.00			4167.01	
C.O. Sub	1.00			4168.01	
Blank Spacing	31.00			4199.01	
C.O. Sub	1.00			4200.01	
Perforations	29.00			4229.01	
Recorder	0.01	11085	Outside	4229.02	
Bullnose	3.00			4232.02	74.02 Bottom Packers & Anchor

Total Tool Length: 97.02

CHART PAGE

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

