

LONG FAMILY TRUST #1-24

745' FNL & 1410' FWL

Approx. C N/2 NW of Section 24 T-2-S R-27-W

Decatur County, Kansas

API #: 15-039-20923-0000

DRILL STEM TEST INFORMATION

DRILL STEM TEST #1

INTERVAL TESTED: 3507.00 feet to 3567.00 feet (Toronto & "A" Zone)

BLOW DESCRIPTION: Initial Flow: 1 inch Blow at open increasing to 2 inch Blow.

No return.

Final Flow: Surface Blow increasing to 1-1/4 inch Blow.

No return.

ALPINE

INITIAL HYDROSTATIC MUD: 1670 PSI

FIRST INITIAL FLOW PRESSURE: 31 PSI

FIRST FINAL FLOW PRESSURE: 100 PSI

INITIAL SHUT-IN PRESSURE: 1001 PSI

SECOND INITIAL FLOW PRESSURE: 101 PSI

SECOND FINAL FLOW PRESSURE: 182 PSI

FINAL SHUT-IN PRESSURE: 970 PSI

FINAL HYDROSTATIC MUD: 1656 PSI

BOTTOM HOLE TEMPERATURE: 101° F.

INITIAL OPENING: 30 minutes INITIAL SHUT-IN: 60 minutes

FINAL OPENING: 60 minutes FINAL SHUT IN: 60 minutes

RECOVERY: 30.00 feet of Slight Water Cut Mud (10% Water and 90% Mud)

150.00 feet of Muddy Water (45% Water and 55% Mud)

150.00 feet of Slight Muddy Water (95% water and 5% Mud)

(All recoveries with oil specks)

TOTAL FLUID RECOVERY: 330.00 feet

GAS IN PIPE: 0.00 feet

DST Contractor: TRILOBITE TESTING, INC.

LONG FAMILY TRUST #1-24
745' FNL & 1410' FWL
Approx. C N/2 NW of Section 24 T-2-S R-27-W
Decatur County, Kansas
API #: 15-039-20923-0000

DRILL STEM TEST INFORMATION

DRILL STEM TEST #2

INTERVAL TESTED: 3566.00 feet to 3585.00 feet (Pollnow Zone)

BLOW DESCRIPTION: Initial Flow: 1/2 inch Blow at open increasing to 3-1/2 inch Blow.

No return.

Final Flow: Surface Blow increasing to 1-1/2 inch Blow.

No return.

	ALPINE
INITIAL HYDROSTATIC MUD:	1697 PSI
FIRST INITIAL FLOW PRESSURE:	32 PSI
FIRST FINAL FLOW PRESSURE:	64 PSI
INITIAL SHUT-IN PRESSURE:	1012 PSI
SECOND INITIAL FLOW PRESSURE:	70 PSI
SECOND FINAL FLOW PRESSURE:	121 PSI
FINAL SHUT-IN PRESSURE:	1008 PSI
FINAL HYDROSTATIC MUD:	1692 PSI
BOTTOM HOLE TEMPERATURE:	103° F.
INITIAL OPENING: 30 minutes	INITIAL SHUT-IN: 60 minutes
FINAL OPENING: 45 minutes	FINAL SHUT IN: 90 minutes
RECOVERY: 90.00 feet of Clean Gassy Oil (10% Gas and 90% Oil) - 34° Gravity	
60.00 feet of Slight Water and Gas Cut Muddy Oil (5% Gas, 55% Oil, 25% Mud and 15% Water)	
120.00 feet of Slight Oil Cut Muddy Water (10% Oil, 20% Mud and 70% Water)	
TOTAL FLUID RECOVERY: 270.00 feet	
GAS IN PIPE: 0.00 feet	

DST Contractor: TRILOBITE TESTING, INC.

LONG FAMILY TRUST #1-24

745' FNL & 1410' FWL

Approx. C N/2 NW of Section 24 T-2-S R-27-W

Decatur County, Kansas

API #: 15-039-20923-0000

COMPLETION INFORMATION

4/18/2002 - Move in Cable Tool - Rigged up ELI to run GR, CCL-CBL. Begin swabbing 4-1/2" casing. Casing swabbed hole down to 3450.00 + feet. Went in hole with perforating gun. Perforate Lansing/KC "Pollnow Zone" from 3580.00 through 3582.00 feet (2 feet) with four (4) shots per foot (EXP) 32 gram charge. All shots fired. Started in hole with 4-1/2" casing swab. First pull recovered a scum of oil along with brown dirty water. Out of hole with second pull and recovered approx. 8.00 feet of oil. Started in hole with 2-3/8" tubing and X-Pert 4-1/2" Model "R" retrievable packer. Set packer at 3562.00 feet (113 joints, Two (2) 8.00 feet subs and 9.52 feet (Model "R" packer) and made ready to tubing swab. Made swab run and well swabbed dry. Shut down overnight.

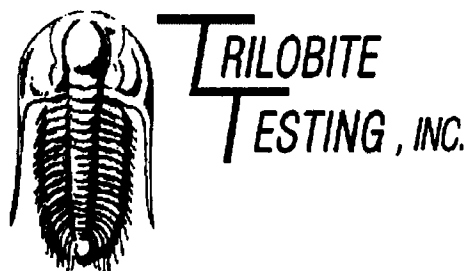
4/19/2002 - Arrived on location. Gas to surface on tubing. Ran swab in hole and did not recover any fluid. Packer set at 3562.00 feet and pulled 16.00 feet of tubing subs and ran one joint (32.78 feet) of tubing. Set bottom of packer with ground level at 3584.00 feet. Rigged up Swift Acid Services. Spot one (1) barrel of 15% MCA acid on perforations. Pulled one (1) joint of tubing and reset packer at 3552.00 feet. Start acid...pumped 250 gallons of 15% MCA...acid in. Treat zone with a maximum pressure of 500 lbs. and a maximum rate of .68 barrels per minute. Initial shut in pressure of 275 lbs. and acid treatment went on a vacuum in one (1) minute. Started swabbing tubing and the fluid level is 750.00 feet from surface. Acid treatment total load is 21.3 barrels. First hour recovered: 13.89 barrels with a show of oil. Second hour recovered: 8.70 barrels of fluid at approx. 12 to 15% oil. Having problems with swab cups. Third hour recovered: 4.06 barrels of fluid at approx. 26 to 30% oil. Fourth hour recovered: 4.10 barrels of fluid at approx. 35 to 50% oil. Fluid level is at 3100.00 feet from surface and the total amount of fluid recovered is 30.75 barrels. Fifth hour recovered: 5.22 barrels of fluid at approx. 35 to 40% oil. Dumped 15.00 barrels of fluid on annulus to flush acid off packer. Resume swabbing and swab hole down to where oil began to appear again. Shut down for weekend.

4/22/2002 - Check overnight fill up from weekend. Made swab run and had 1600.00 feet of fill up with 420.00 feet of oil on top of the water.

Continued swabbing hole down and recovering heavy fines and drilling mud. Rigged up Swift Acid Services. Start acid...1500 gallons of 20% SGA (slightly gelled) acid...acid in. Treat zone with a maximum pressure of 625 lbs. and a maximum rate of 1.3 barrel per minute. Initial shut in pressure of 575 lbs. and acid treatment went on a vacuum in 17 minutes. Let acid remain in formation for one (1) hour before swabbing load back. Acid treatment total load is 51.00 barrels. Started swabbing load back and the fluid level is 1200.00 feet from surface. First hour recovered: 17.4 barrels of fluid mostly gritty dirty water. Second hour test recovered: 12.12 barrels of fluid with a scum of oil and dirty water. Third hour test recovered: 11.02 barrels of fluid at approx. 4% oil. Fourth hour test recovered: 8.99 barrels of fluid at approx. 31% oil. Fifth hour test recovered: 8.42 barrels of fluid at approx. 27% oil. Have received 6.95 barrels of fluid over acid treatment total load. Sixth hour test recovered: 8.12 barrels of fluid at approx. 25% oil. Seventh hour test recovered: 7.83 barrels of fluid at approx. 26% oil. During swab down the fluid level is remaining 2950.00 feet from surface. Shut down overnight.

4/23/2002 - Check overnight fill up. Made swab run and had 1800.00 feet of fill up with 400.00 feet of oil on top of the water. Swabbed one (1) hour and recovered 11.04 barrels of fluid at approx. 22% oil. Released Model "R" retrievable packer and started out of hole with tools and made ready to run production string. Put on production 6/14/2002 at 30 BOPD and 150 BWPD.

End of report.



DRILL STEM TEST REPORT

Prepared For: **Dark Horse Oil Company**

34861 Forest Park Dr.
Elizabeth, CO 80107-7879

ATTN: Dark Horse Oil Comp.

24-2s-27w Decatur, Ks

Long Family Trust #1-24

Start Date: 2002.03.30 @ 08:38:18

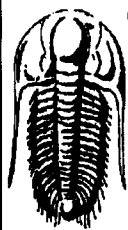
End Date: 2002.03.30 @ 15:58:47

Job Ticket #: 15082 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 Company

34861 Forest Park Dr.
Elizabeth, CO 80107-7879

ATTN: Dark Horse Oil Comp.

Long Family Trust #1-24

24-2s-27w Decatur, Ks

Job Ticket: 15082

DST#: 1

Test Start: 2002.03.30 @ 08:38:18

GENERAL INFORMATION:

Formation: "A"

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:44:17

Time Test Ended: 15:58:47

Test Type: Conventional Bottom Hole

Tester: Shane McBride

Unit No: 15

Interval: 3507.00 ft (KB) To 3567.00 ft (KB) (TVD)

Total Depth: 3567.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2682.00 ft (KB)

2677.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 3227

Press@RunDepth: 182.26 psig @ 3508.00 ft (KB)

Start Date: 2002.03.30

End Date:

2002.03.30

Start Time: 08:38:18

End Time:

15:58:47

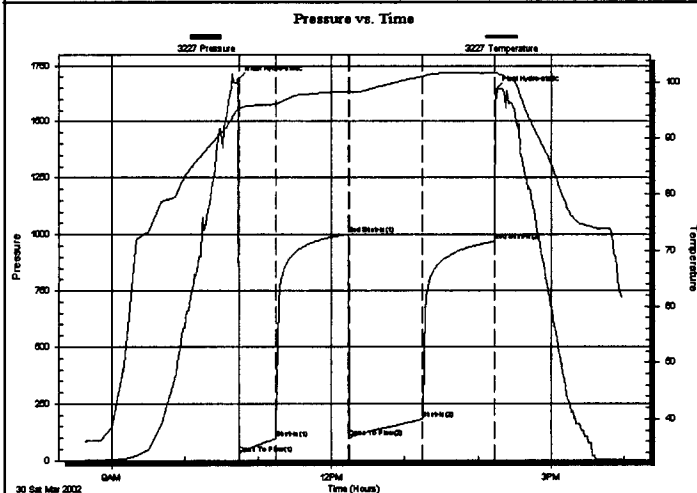
Capacity: 7000.00 psig

Last Calib.: 1899.12.30

Time On Btm: 2002.03.30 @ 10:43:47

Time Off Btm: 2002.03.30 @ 14:14:17

TEST COMMENT: 1" in. @ open ,built to 2"
No return
Surface blow built to 1 1/4"
No return



PRESSURE SUMMARY

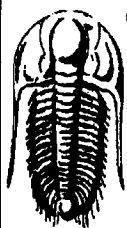
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1686.87	95.28	Initial Hydro-static
1	30.51	95.24	Open To Flow (1)
31	96.74	96.14	Shut-In(1)
90	1001.35	98.39	End Shut-In(1)
91	100.55	98.31	Open To Flow (2)
151	182.26	101.05	Shut-In(2)
210	970.45	101.66	End Shut-In(2)
211	1642.79	101.72	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	s w c m w/oil spots 10%w 90%m	0.15
150.00	m c w w/oil spots 45%w 55%m	0.74
150.00	s m c w w/oil spots 95%w 5%m	0.74

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 Company

Long Family Trust #1-24

34861 Forest Park Dr.
Elizabeth, CO 80107-7879

24-2s-27w Decatur, Ks

Job Ticket: 15082

DST#: 1

ATTN: Dark Horse Oil Comp.

Test Start: 2002.03.30 @ 08:38:18

Tool Information

Drill Pipe:	Length: 2965.00 ft	Diameter: 3.80 inches	Volume: 41.59 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: 530.00 ft	Diameter: 2.25 inches	Volume: 2.61 bbl	Weight to Pull Loose: 65000.00 lb
			Total Volume: 44.20 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	3507.00 ft			Final 53000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	60.00 ft			
Tool Length:	82.00 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			3486.00	
S.I. Tool	5.00			3491.00	
HMV	5.00			3496.00	
Safety Joint	2.00			3498.00	
Packer	5.00			3503.00	22.00 Bottom Of Top Packer
Packer	4.00			3507.00	
Stubb	1.00			3508.00	
Recorder	0.00	3227		3508.00	
Perforations	21.00			3529.00	
C.O. Sub	1.00			3530.00	
drillpipe	31.00			3561.00	
C.O. Sub	1.00			3562.00	
Recorder	0.00	11057		3562.00	
Bullnose	5.00			3567.00	60.00 Bottom Packers & Anchor

Total Tool Length: 82.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Dark Horse Oil Company

Long Family Trust #1-24

34861 Forest Park Dr.
Elizabeth, CO 80107-7879

24-2s-27w Decatur, Ks

Job Ticket: 15082

DST#: 1

ATTN: Dark Horse Oil Comp.

Test Start: 2002.03.30 @ 08:38:18

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 45.00 sec/qt

Water Loss: 7.17 in³

Resistivity: 0.00 ohm.m

Salinity: 600.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

Oil API:

deg API

Water Salinity:

25500 ppm

ft

bbl

psig

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	s w c m w/oil spots 10%w 90%m	0.148
150.00	m c w w/oil spots 45%w 55%m	0.738
150.00	s m c w w/oil spots 95%w 5%m	0.738

Total Length: 330.00 ft Total Volume: 1.624 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

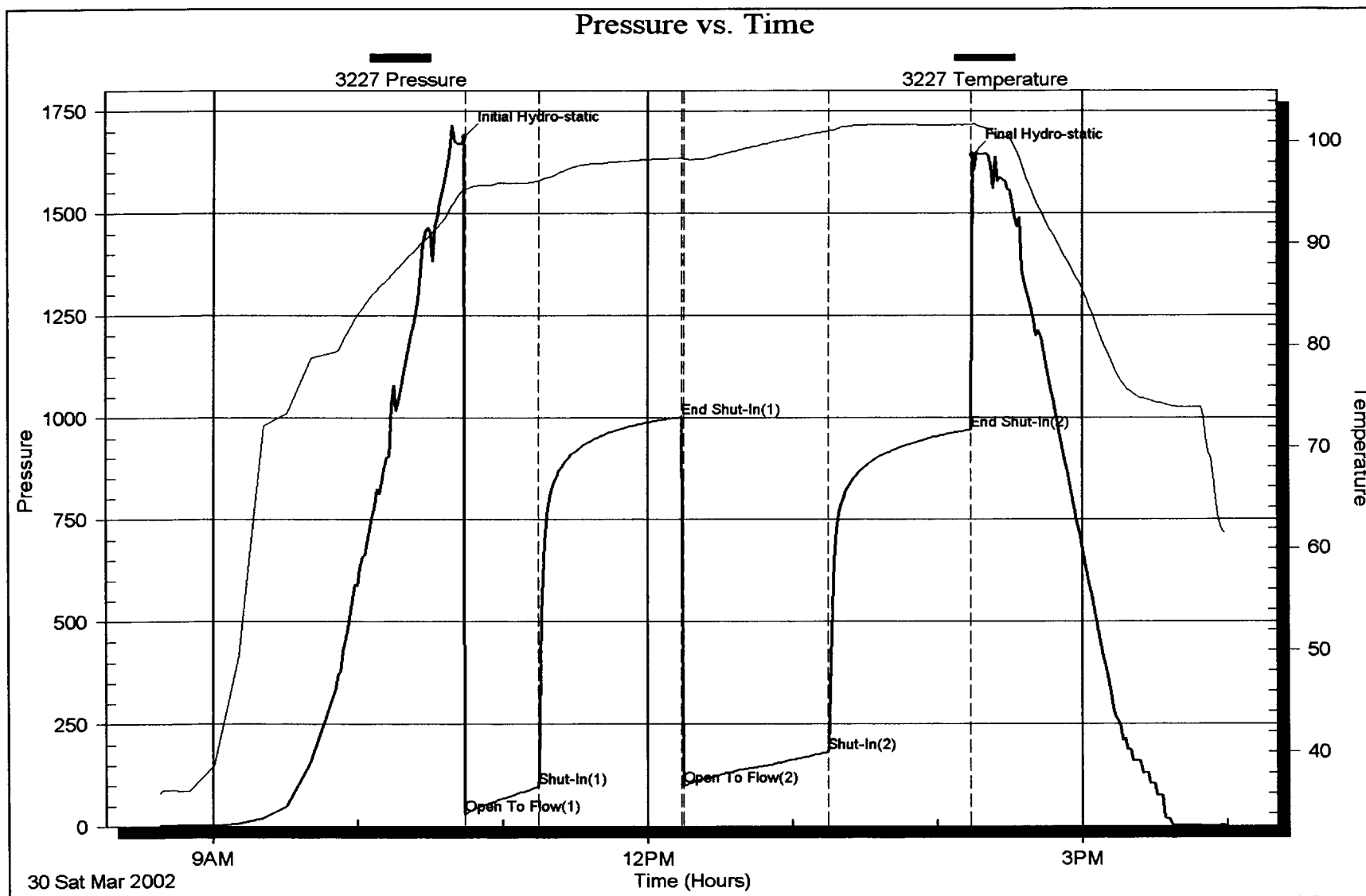
Recovery Comments: RW .260@68 degree F

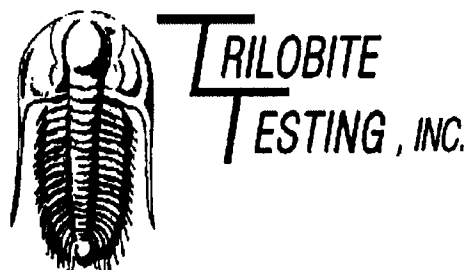
Serial #: 3227

Dark Horse Oil Company

24-2s-27w Decatur, Ks

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **Dark Horse Oil Company**

34861 Forest Park Dr.
Elizabeth, CO 80107-7879

ATTN: Dark Horse Oil Comp.

24-2s-27w Decatur, Ks

Long Family Trust #1-24

Start Date: 2002.03.30 @ 20:41:24

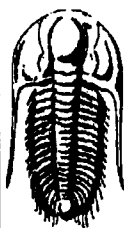
End Date: 2002.03.31 @ 03:50:23

Job Ticket #: 15083 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 Company

34861 Forest Park Dr.
Elizabeth, CO 80107-7879

ATTN: Dark Horse Oil Comp.

Long Family Trust #1-24

24-2s-27w Decatur, Ks

Job Ticket: 15083

DST#: 2

Test Start: 2002.03.30 @ 20:41:24

GENERAL INFORMATION:

Formation: **Pollnow "B"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:11:23

Time Test Ended: 03:50:23

Test Type: Conventional Bottom Hole

Tester: Shane McBride

Unit No: 15

Interval: **3566.00 ft (KB) To 3585.00 ft (KB) (TVD)**

Total Depth: 3585.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2682.00 ft (KB)

2677.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 3227

Press@RunDepth: 120.60 psig @ 3567.00 ft (KB)

Start Date: 2002.03.30

End Date:

2002.03.31

Start Time: 20:41:24

End Time:

03:50:23

Capacity: 7000.00 psig

Last Calib.: 1899.12.30

Time On Btrr: 2002.03.30 @ 22:10:53

Time Off Btrr: 2002.03.31 @ 01:58:23

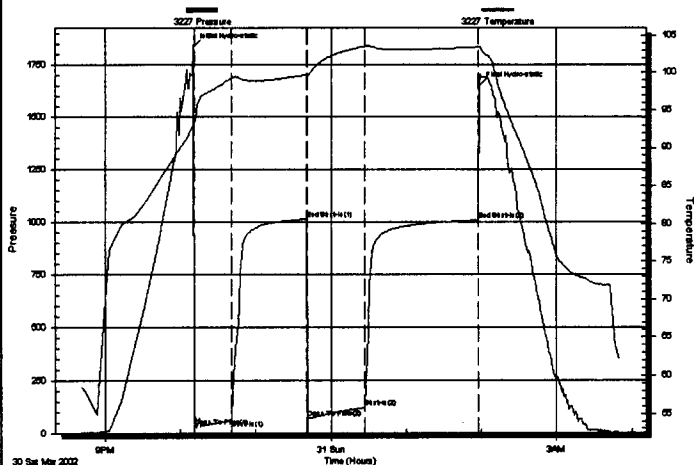
TEST COMMENT: 1/2" @ open, built to 3 1/2"

No return

Surface blow built to 1 1/2"

No return

Pressure vs. Time



PRESSURE SUMMARY

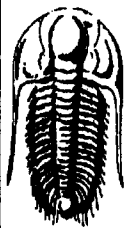
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1836.29	93.08	Initial Hydro-static
1	31.98	93.17	Open To Flow (1)
30	64.22	99.25	Shut-In(1)
90	1011.77	99.70	End Shut-In(1)
91	69.91	99.65	Open To Flow (2)
136	120.60	103.51	Shut-In(2)
227	1007.66	103.41	End Shut-In(2)
228	1650.36	103.50	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
90.00	c g o 10g 90o	0.44
60.00	s w & g c m o 15w 5g 25m 55 o	0.30
120.00	s o c m w 10o 20m 70w	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

Dark Horse Oil Company

Long Family Trust #1-24

34861 Forest Park Dr.
Elizabeth, CO 80107-7879

24-2s-27w Decatur, Ks

Job Ticket: 15083

DST#: 2

ATTN: Dark Horse Oil Comp.

Test Start: 2002.03.30 @ 20:41:24

Tool Information

Drill Pipe:	Length: 3030.00 ft	Diameter: 3.80 inches	Volume: 42.50 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: 530.00 ft	Diameter: 2.25 inches	Volume: 2.61 bbl	Weight to Pull Loose: 65000.00 lb
			Total Volume: 45.11 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	16.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	3566.00 ft			Final 53000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	19.00 ft			
Tool Length:	41.00 ft			
Number of Packers:	1	Diameter: 7.88 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			3545.00	
S.I. Tool	5.00			3550.00	
HMV	5.00			3555.00	
Safety Joint	2.00			3557.00	
Packer	5.00			3562.00	22.00 Bottom Of Top Packer
Packer	4.00			3566.00	
Stubb	1.00			3567.00	
Recorder	0.00	3227		3567.00	
Perforations	13.00			3580.00	
Recorder	0.00	11057		3580.00	
Bullnose	5.00			3585.00	19.00 Bottom Packers & Anchor

Total Tool Length: 41.00



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Dark Horse Oil Company

Long Family Trust #1-24

34861 Forest Park Dr.
Elizabeth, CO 80107-7879

24-2s-27w Decatur, Ks

Job Ticket: 15083

DST#: 2

ATTN: Dark Horse Oil Comp.

Test Start: 2002.03.30 @ 20:41:24

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:

22000 ppm

Viscosity: 51.00 sec/qt

Cushion Volume:

bbl

Water Loss: 6.79 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
90.00	c g o 10g 90o	0.443
60.00	s w & g c m o 15w 5g 25m 55 o	0.295
120.00	s o c m w 10o 20m 70w	0.590

Total Length: 270.00 ft

Total Volume: 1.328 bbl

Num Fluid Samples: 0

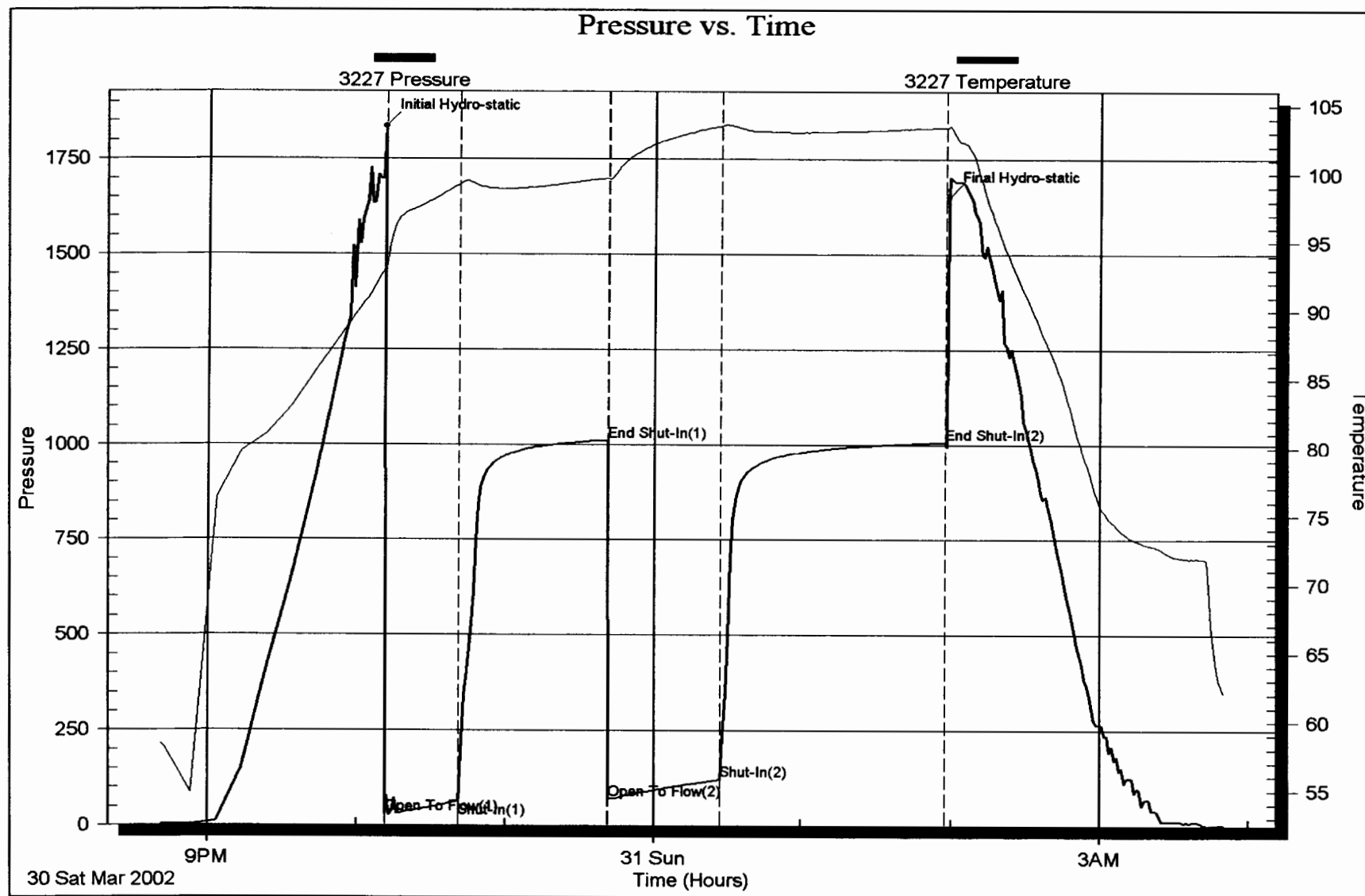
Num Gas Bombs: 0

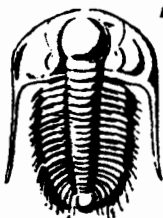
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW .372@54 degrees F





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 15082

Test Ticket

Well Name & No. Long Family Trust #1-24 Test No. #1 Date 3-30-02
 Company Dark Horse Oil Comp. Zone Tested "A"
 Address 34861 Forest Park Drive, Elizabeth, Colo, 80107-7879 Elevation 2682' KB 2677' GL
 Co. Rep / Geo. Paul Gunzelman Cont. Martin #3 Est. Ft. of Pay Por. %
 Location: Sec. 24 Twp. 25 Rge. 27w Co. Decatur State KS
 No. of Copies None Distribution Sheet (Y, N) Turnkey (Y, N) Evaluation (Y, N)

Interval Tested 3507 3567 Initial Str Wt./Lbs. 52,000 Unseated Str Wt./Lbs. 53,000
 Anchor Length 60 Wt. Set Lbs. 30,000 Wt. Pulled Loose/Lbs. 65,000
 Top Packer Depth 3502 Tool Weight 1,500
 Bottom Packer Depth 3507 Hole Size — 7 7/8" ✓ Rubber Size — 6 3/4" ✓
 Total Depth 3567 Wt. Pipe Run Drill Collar Run 530'
 Mud Wt. 8.6 LCM #1 Vis. 4.5 WL 7.2 Drill Pipe Size 4 1/2 X 4 Ft. Run 2996'
 Blow Description 1" in @ open, built to 2" in.

No return
Surface blow built to 1 1/4" in.
No return

Recovery — Total Feet 330 GIP Ft. in DC 330' Ft. in DP
 Rec. 30' Feet Of SWCM w/oil spots %gas spots %oil 10 %water 90 %mud
 Rec. 150' Feet Of MCW w/oil spots %gas spots %oil 45 %water 55 %mud
 Rec. 150' Feet Of SMCW w/oil spots %gas spots %oil 95 %water 5 %mud
 Rec. Feet Of %gas %oil %water %mud
 Rec. Feet Of %gas %oil %water %mud
 BHT 101° °F Gravity °API D@ °F Corrected Gravity °API
 RW .260 @ 68° °F Chlorides 25,500 ppm Recovery Chlorides 600 ppm System

	AK-1	Alpine	PSI	Recorder No.	T-On Location
(A) Initial Hydrostatic Mud	1836	1670		3227	06:00 AM
(B) First Initial Flow Pressure	67	30	PSI (depth)	3508	T-Started 07:45 AM
(C) First Final Flow Pressure	112	96	PSI Recorder No.	11057	T-Open 09:15 AM
(D) Initial Shut-In Pressure	1006	1001	PSI (depth)	3562'	T-Pulled 12:45 P.M.
(E) Second Initial Flow Pressure	123	100	PSI Recorder No.		T-Out 14:45 P.M.
(F) Second Final Flow Pressure	213	182	PSI (depth)		T-Off Location 15:20 P.M.
(G) Final Shut-in Pressure	975	970	PSI Initial Opening	30	Test X 700
(Q) Final Hydrostatic Mud	1825	1656	PSI Initial Shut-in	60	Jars
			Final Flow	60	Safety Joint X 50
			Final Shut-in	60	Straddle

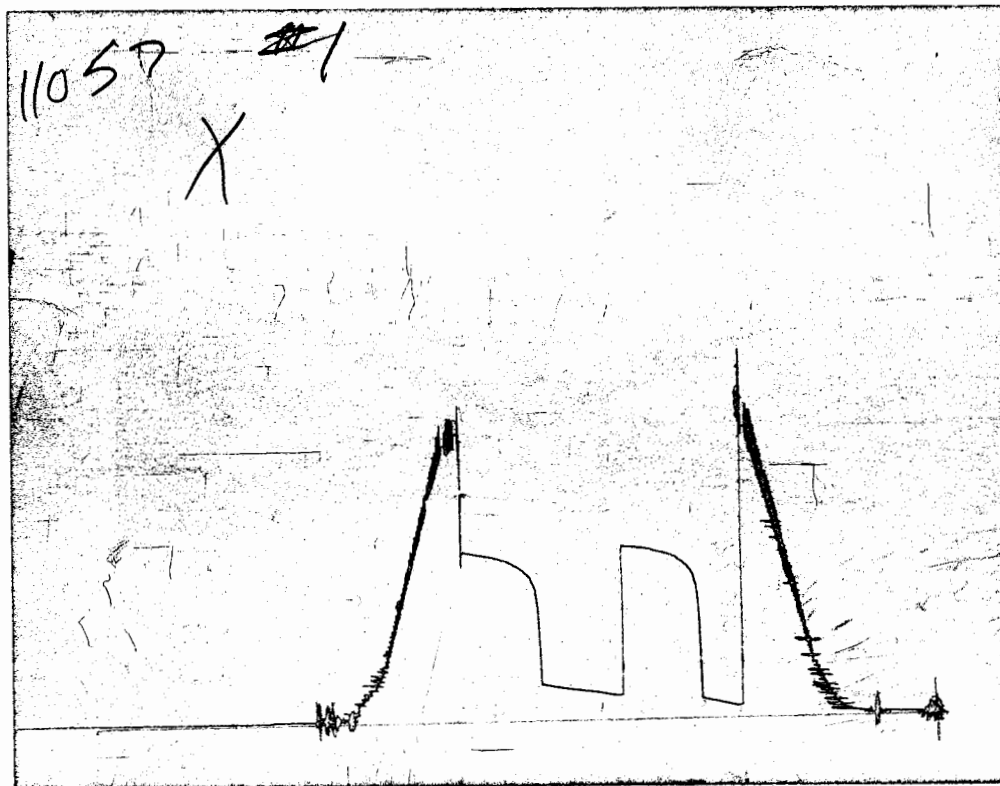
TRILOBITE TESTING INC. SHALL NOT BE LIABLE FOR DAMAGE OF ANY KIND OF THE PROPERTY OR PERSONNEL OF THE ONE FOR WHOM A TEST IS MADE, OR FOR ANY LOSS SUFFERED OR SUSTAINED, DIRECTLY OR INDIRECTLY, THROUGH THE USE OF ITS EQUIPMENT, OR ITS STATEMENTS OR OPINION CONCERNING THE RESULTS OF ANY TEST. TOOLS LOST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

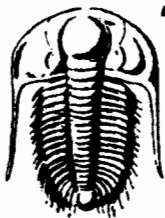
Approved By Paul Gunzelman
 Our Representative

Circ. Sub X A/C
 Sampler
 Extra Packer
 Elec. Rec. X 150
 Mileage X 125 way
 Other 1 hr 30
 TOTAL PRICE \$ 1055

CHART PAGE

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





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 15083

Test Ticket

Well Name & No. <u>Long Family Trust #1-24</u>	Test No. <u>#2</u>	Date <u>3-30-02</u>
Company <u>Dark Horse Oil Comp.</u>	Zone Tested <u>Pollnow "B"</u>	
Address <u>Elizabeth, Colo</u>	Elevation <u>2682</u> KB <u>2677</u> GL	
Co. Rep / Geo. <u>Paul Ganzelman</u>	Cont. <u>Martin #3</u>	Est. Ft. of Pay <u> </u> Por. <u> </u> %
Location: Sec. <u>24</u> Twp. <u>2</u> Rge. <u>27</u>	Co. <u>Decatur</u>	State <u>Ks</u>
No. of Copies <u>Norm</u> Distribution Sheet (Y, N) <u> </u>	Turnkey (Y, N) <u> </u>	Evaluation (Y, N) <u> </u>

Interval Tested <u>3566</u>	<u>3585</u>	Initial Str Wt./Lbs. <u>52,000</u>	Unseated Str Wt./Lbs. <u>53,000</u>
Anchor Length <u> </u>	<u>19</u>	Wt. Set Lbs. <u>30,000</u>	Wt. Pulled Loose/Lbs. <u>65,000</u>
Top Packer Depth <u> </u>	<u>3561</u>	Tool Weight <u>1,500</u>	
Bottom Packer Depth <u> </u>	<u>3566</u>	Hole Size — 7 7/8" <u>✓</u>	Rubber Size — 6 3/4" <u>✓</u>
Total Depth <u> </u>	<u>3585</u>	Wt. Pipe Run <u> </u>	Drill Collar Run <u>530</u>
Mud Wt. <u>8.9</u> LCM <u>#1</u> Vis. <u>51</u> WL <u>6.8</u>		Drill Pipe Size <u>4 1/2 XH</u>	Ft. Run <u>3030</u>
Blow Description <u>1/2" in @ open built to 3 1/2" in.</u>			

No return.

Surface blow built to 1 1/2" in.

No return.

Recovery — Total Feet <u>270</u>	GIP <u>30' weak</u>	Ft. in DC <u>270</u>	Ft. in DP <u> </u>
Rec. <u>90</u> Feet Of <u>Cgo</u>	10 %gas 90 %oil	%water	%mud
Rec. <u>60</u> Feet Of <u>Sw 3 gcmo</u>	5 %gas 55 %oil	15 %water 25 %mud	
Rec. <u>120</u> Feet Of <u>50 cmw</u>	%gas 10 %oil	70 %water 20 %mud	
Rec. <u> </u> Feet Of <u> </u>	%gas %oil	%water %mud	
Rec. <u> </u> Feet Of <u> </u>	%gas %oil	%water %mud	
BHT <u> </u> °F Gravity <u>34</u>	°API D@ <u>60°</u>	°F Corrected Gravity <u>34</u>	°API <u> </u>
RW <u>372</u> @ <u>54</u> °F	Chlorides <u>22,000</u> ppm Recovery	Chlorides <u>1000</u> ppm System	

(A) Initial Hydrostatic Mud	AK-1 <u>Alpine</u> <u>1696</u>	PSI Recorder No. <u>3227</u>	T-On Location <u>18:45 p.m.</u>
(B) First Initial Flow Pressure	<u>31</u>	PSI (depth) <u>3567'</u>	T-Started <u>19:15 p.m.</u>
(C) First Final Flow Pressure	<u>64</u>	PSI Recorder No. <u>11057</u>	T-Open <u>20:45 p.m.</u> 8
(D) Initial Shut-In Pressure	<u>1011</u>	PSI (depth) <u>3580'</u>	T-Pulled <u>12:30 a.m.</u>
(E) Second Initial Flow Pressure	<u>69</u>	PSI Recorder No. <u> </u>	T-Out <u>02:45 a.m.</u>
(F) Second Final Flow Pressure	<u>120</u>	PSI (depth) <u> </u>	T-Off Location <u>03:45 a.m.</u>
(G) Final Shut-in Pressure	<u>1007</u>	PSI Initial Opening <u>30</u>	Test X <u>700</u>
(Q) Final Hydrostatic Mud	<u>1692</u>	PSI Initial Shut-in <u>60</u>	Jars <u> </u>
		Final Flow <u>45</u>	Safety Joint X <u>50</u>
		Final Shut-in <u>90</u>	Straddle <u> </u>

8' off fill on
Bottom.

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Approved By Paul Ganzelman

Our Representative Steve McNeil

Circ. Sub X n/c
Sampler
Extra Packer
Elec. Rec. X 150
Mileage
Other
TOTAL PRICE \$ 900

CHART PAGE

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

