

15-039-20921

13-2-27W
ORIGINAL

LONG FAMILY TRUST #1-13
330' FSL & 520' FWL
Approx. C S/2 SW SW of Section 13 T-2-S R-27-W
Decatur County, Kansas
API #: 15-039-20921-0000

DRILL STEM TEST INFORMATION

DRILL STEM TEST #1

INTERVAL TESTED: 3576.00 feet to 3598.00 feet (Pollnow Zone)

**BLOW DESCRIPTION: Initial Flow: Weak to a Strong Blow - off bottom of bucket
in 20 minutes.**

**Final Flow: Weak to a Strong Blow - off bottom of bucket
in 28 minutes.**

Bled tool off and received a 1 inch return blow throughout both shut ins.

ALPINE	
INITIAL HYDROSTATIC MUD:	1698 PSI
FIRST INITIAL FLOW PRESSURE:	46 PSI
FIRST FINAL FLOW PRESSURE:	122 PSI
INITIAL SHUT-IN PRESSURE:	948 PSI
SECOND INITIAL FLOW PRESSURE:	132 PSI
SECOND FINAL FLOW PRESSURE:	191 PSI
FINAL SHUT-IN PRESSURE:	843 PSI
FINAL HYDROSTATIC MUD:	1671 PSI
BOTTOM HOLE TEMPERATURE:	103° F.
INITIAL OPENING: 30 minutes	INITIAL SHUT-IN: 60 minutes
FINAL OPENING: 60 minutes	FINAL SHUT IN: 60 minutes
RECOVERY: 380.00 feet of Clean Gassy Oil - 36° Gravity @ 60° F. 120.00 feet of Muddy Gassy Oil (50% Oil, 30% Gas & 20% Mud) (450.00 feet in drill collars and 50.00 feet in drill pipe)	
TOTAL FLUID RECOVERY: 500.00 feet	
GAS IN PIPE: 600.00 feet	

DST Contractor: TRILOBITE TESTING, INC.

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DEC 03 2001

KCC WICHITA

LONG FAMILY TRUST #1-13
330' FSL & 520' FWL
Approx. C S/2 SW SW of Section 13 T-2-S R-27-W
Decatur County, Kansas
API #: 15-039-20921-0000

DRILL STEM TEST INFORMATION

DRILL STEM TEST #2

INTERVAL TESTED: 3591.00 feet to 3613.00 feet (LKC "C/D" Zones)

**BLOW DESCRIPTION: Initial Flow: Weak to a Strong Blow - off bottom of bucket
in 8 minutes. 5 inch return blow on shut-in.**

**Final Flow: Weak to a Strong Blow - off bottom of bucket
in 13 minutes. 2 inch return blow on shut-in.**

	ALPINE
INITIAL HYDROSTATIC MUD:	1716 PSI
FIRST INITIAL FLOW PRESSURE:	21 PSI
FIRST FINAL FLOW PRESSURE:	139 PSI
INITIAL SHUT-IN PRESSURE:	805 PSI
SECOND INITIAL FLOW PRESSURE:	150 PSI
SECOND FINAL FLOW PRESSURE:	219 PSI
FINAL SHUT-IN PRESSURE:	795 PSI
FINAL HYDROSTATIC MUD:	1681 PSI
BOTTOM HOLE TEMPERATURE:	104° F.
INITIAL OPENING: 30 minutes	INITIAL SHUT-IN: 60 minutes
FINAL OPENING: 45 minutes	FINAL SHUT IN: 60 minutes
RECOVERY: 310.00 feet of Clean Gassy Oil - 36° Gravity @ 60° F.	
90.00 feet of Muddy Gassy Oil (50% Oil, 30% Gas & 20% Mud)	
150.00 feet of Slightly Oil Cut Muddy Water (1% Oil, 5% Mud & 94% Water)	
(450.00 feet in drill collars and 100.00 feet in drill pipe)	
TOTAL FLUID RECOVERY: 550.00 feet	
GAS IN PIPE: 410.00 feet	

DST Contractor: TRILOBITE TESTING, INC.

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ORIGINAL

LONG FAMILY TRUST #1-13
330' FSL & 520' FWL
Approx. C S/2 SW SW of Section 13 T-2-S R-27-W
Decatur County, Kansas
API #: 15-039-20921-0000

DRILL STEM TEST INFORMATION

DRILL STEM TEST #3

INTERVAL TESTED: 3654.00 feet to 3744.00 feet (LKC "H" "J" & "K" Zones)

BLOW DESCRIPTION: Initial Flow: Very Weak (1/4 inch) Blow throughout.

Final Flow: Very Weak surface blow throughout.

	ALPINE
INITIAL HYDROSTATIC MUD:	1782 PSI
FIRST INITIAL FLOW PRESSURE:	17 PSI
FIRST FINAL FLOW PRESSURE:	34 PSI
INITIAL SHUT-IN PRESSURE:	1135 PSI
SECOND INITIAL FLOW PRESSURE:	38 PSI
SECOND FINAL FLOW PRESSURE:	57 PSI
FINAL SHUT-IN PRESSURE:	1077 PSI
FINAL HYDROSTATIC MUD:	1763 PSI
BOTTOM HOLE TEMPERATURE:	101 F.
INITIAL OPENING: 30 minutes	INITIAL SHUT-IN: 60 minutes
FINAL OPENING: 45 minutes	FINAL SHUT IN: 60 minutes
RECOVERY: 75.00 feet of Mud (75.00 feet in drill collars)	
TOTAL FLUID RECOVERY: 75.00 feet	
GAS IN PIPE: 0.00 feet	

DST Contractor: TRILOBITE TESTING, INC.

RECEIVED

DEC 03 2001

KCC WICHITA

LONG FAMILY TRUST #1-13
330' FSL & 520' FWL
Approx. C S/2 SW SW of Section 13 T-2-S R-27-W
Decatur County, Kansas
API #: 15-039-20921-0000

COMPLETION INFORMATION

10/31/2001 - Move in Cable Tool - Rigged up ELI to run GRCCL-CBL. Begin swabbing 4 1/2" casing. Casing swabbed down to 3400.00 + feet. Went in hole with perforating gun. Perforate Lansing/KC "Pollnow Zone" from 3592.00 through 3594.00 feet (2 feet) with four (4) shots per foot (EXP) 32 gram charge. Ran in hole with 4 1/2" casing swab. On second swab run pulled approximately 20 feet of oil. Started in hole with 2 3/8" tubing and X-Pert 4 1/2" Model "R" retrievable packer. Set packer at 3581.00 feet and begin swabbing tubing. Pulled approximately 40 feet of oil. Rigged up Swift Acid Services. Start acid... 250 gallons of 15% mud acid (spotted one (1) barrel on perforations). Acid in. Maximum pressure 300 lbs. No rate...fed acid in. Initial shut in pressure...275 lbs. and acid treatment went on a vacuum in 30 seconds. Begin swabbing load back. Swabbed approximately 17 barrels back (20.5 barrels total load) and fluid being recovered is 100% oil. Begin hourly swab test...First hour test recovered: 9.28 barrels—all oil. Fluid level remaining 550.00 feet above the seat nipple while making six swab runs per hour. Good gas blow throughout pulls. Dumped acid from top of packer and made swab run. Shut down overnight.

11/01/2001 - Check overnight fill up. Fluid 1700.00 feet from surface ... 1900.00 feet of fill up (all oil). Began swabbing. First hour test recovered: 15.08 barrels—all oil (7.2 barrels on swab down and 7.88 barrels test). Second hour test recovered: 7.54 barrels—all oil. Third hour test recovered: 7.48 barrels—all oil. Fourth hour test recovered: 7.62 barrels—all oil. Fluid level remaining 450.00 feet above the seat nipple while making six swab runs per hour. Have recovered 43.46 barrels over initial acid treatment load. Rigged up Swift Acid Services. Start acid...1000 gallons of 20% SGA (slightly gelled) acid. Started acid...zone treated at .8 barrels per minute at 275 lbs. pressure. Acid in. Initial shut in pressure...175 lbs. and acid treatment went on a vacuum in one (1) minute. Shut in well for one hour and begin swabbing load (38.3 barrels total load) back. 3:30 p.m. fluid at 1200.00 feet from surface. 4:30 p.m. swabbed from 1800.00 feet from surface and have recovered 16.24 barrels. 5:30 p.m. fluid at 2250.00 feet from surface and recovered 16.24 barrels—all oil. 6:04 p.m. recovered 7.88 barrels—all oil. Shut down overnight.

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DEC 03 2001

KCC WICHITA

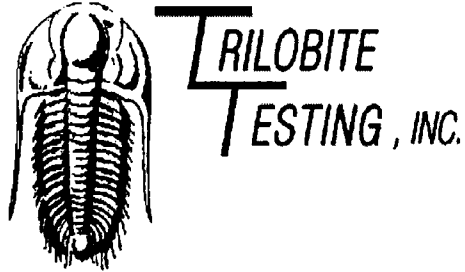
ORIGINAL

11/02/2001 - Check overnight fill up. Ran in hole with swab...Found fluid at 1700.00 feet from surface...1900.00 feet overnight fill up. Began swabbing. First swab run...900.00 feet of oil and 200.00 feet of water. Second, third, fourth and fifth swab runs...all water (load water totaled approximately 14-15 barrels). Sixth swab run...850.00 feet of oil and 100.00 water. Began hour test...recovered 18.2 barrels—all oil with gas to surface. Fluid level remaining 850.00 feet above the seat nipple while making 6 swab runs per hour. Have recovered 20.26 barrels over second acid treatment load. Released Model "R" retrievable packer and started out of hole with tools. Out of hole with tools and made ready to run production string. Put on production 11/09/2001 at 65 BOPD and 45 BWPD.

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DEC 03 2001

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DRILL STEM TEST REPORT

Prepared For: **Dark Horse Oil Co**

34861 Forest Park Drive
Elizabeth CO 80107-7879

ATTN: Doug Frickey

13-2s-27w Decatur KS

Long Family Trust #1-13

Start Date: 2001.10.05 @ 04:26:07

End Date: 2001.10.05 @ 12:21:06

Job Ticket #: 15296 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Dark Horse Oil Co

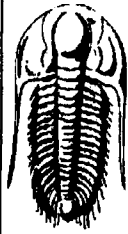
Long Family Trust #1-13

13-2s-27w Decatur KS

DST # 1

Pollnow

2001.10.05



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

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

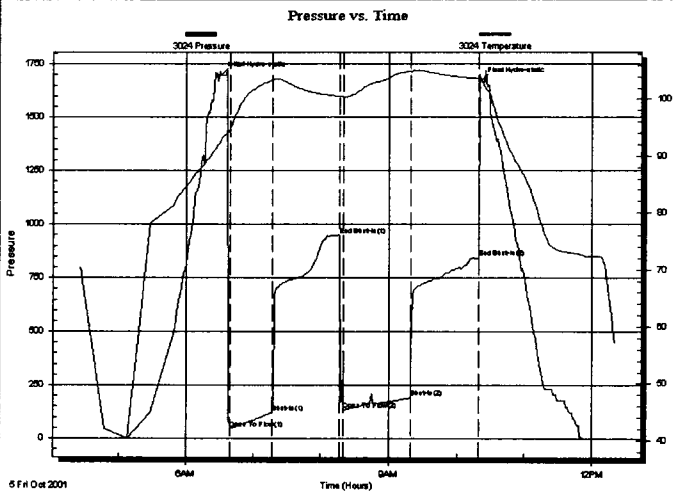
Long Family Trust #1-13
13-2s-27w Decatur KS
Job Ticket: 15296 DST#: 1
Test Start: 2001.10.05 @ 04:26:07

GENERAL INFORMATION:

Formation: **Pollnow**
Deviated: **No Whipstock:** ft (KB)
Time Tool Opened: 06:39:06
Time Test Ended: 12:21:06
Test Type: Conventional Bottom Hole
Tester: Ray Schwager
Unit No: 16
Interval: **3576.00 ft (KB) To 3598.00 ft (KB) (TVD)**
Reference Elevations: 2698.00 ft (KB)
Total Depth: 3598.00 ft (KB) (TVD) 2693.00 ft (CF)
Hole Diameter: 7.85 inches Hole Condition: Fair KB to GR/CF: 5.00 ft

Serial #: 3024 Inside
Press@RunDepth: 191.60 psig @ 3577.01 ft (KB) Capacity: 7000.00 psig
Start Date: 2001.10.05 End Date: 2001.10.05 Last Calib.: 2001.10.05
Start Time: 04:26:07 End Time: 12:21:06 Time On Btm: 2001.10.05 @ 06:30:36
Time Off Btm: 2001.10.05 @ 10:21:36

TEST COMMENT: FFP-w k to strg bl in 20min had 1" bl on shut-ins
FFP-w k to strg bl in 28min
times 40-60-60-60



PRESSURE SUMMARY

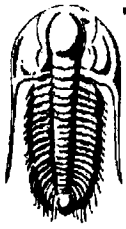
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1698.43	92.74	Initial Hydro-static
9	46.39	94.65	Open To Flow (1)
47	122.13	103.43	Shut-In(1)
106	948.39	100.60	End Shut-In(1)
110	132.74	100.42	Open To Flow (2)
169	191.60	104.99	Shut-In(2)
229	843.01	103.66	End Shut-In(2)
231	1671.50	103.40	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	MGO 30%gas 20%mud 50%oil	0.59
330.00	Clean Oil	1.62
50.00	Clean Oil	0.70
600.00	GIP	8.42

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

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

Long Family Trust #1-13
13-2s-27w Decatur KS
Job Ticket: 15296 **DST#: 1**
Test Start: 2001.10.05 @ 04:26:07

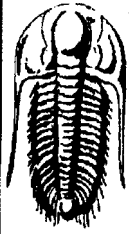
Tool Information

Drill Pipe:	Length: 3110.00 ft	Diameter: 3.80 inches	Volume: 43.63 bbl	Tool Weight: 2200.00 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: 450.00 ft	Diameter: 2.25 inches	Volume: 2.21 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 45.84 bbl</u>	Tool Chased 3.00 ft
Drill Pipe Above KB:	7.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	3576.00 ft			Final 51000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	22.02 ft			
Tool Length:	45.02 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			3554.00	
S.I. Tool	5.00			3559.00	
HMV	5.00			3564.00	
Safety Joint	2.00			3566.00	
Packer	5.00			3571.00	23.00 Bottom Of Top Packer
Packer	5.00			3576.00	
Stubb	1.00			3577.00	
Recorder	0.01	3024	Inside	3577.01	
Perforations	18.00			3595.01	
Recorder	0.01	11085	Outside	3595.02	
Bullnose	3.00			3598.02	22.02 Bottom Packers & Anchor

Total Tool Length: 45.02



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Dark Horse Oil Co
34861 Forest Park Drive
Elizabeth CO 80107-7879

Long Family Trust #1-13
13-2s-27w Decatur KS
Job Ticket: 15296 **DST#: 1**
Test Start: 2001.10.05 @ 04:26:07

ATTN: Doug Frickey

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	36 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 54.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.76 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 600.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	MGO 30%gas 20%mud 50%oil	0.590
330.00	Clean Oil	1.623
50.00	Clean Oil	0.701
600.00	GIP	8.416

Total Length: 1100.00 ft Total Volume: 11.330 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

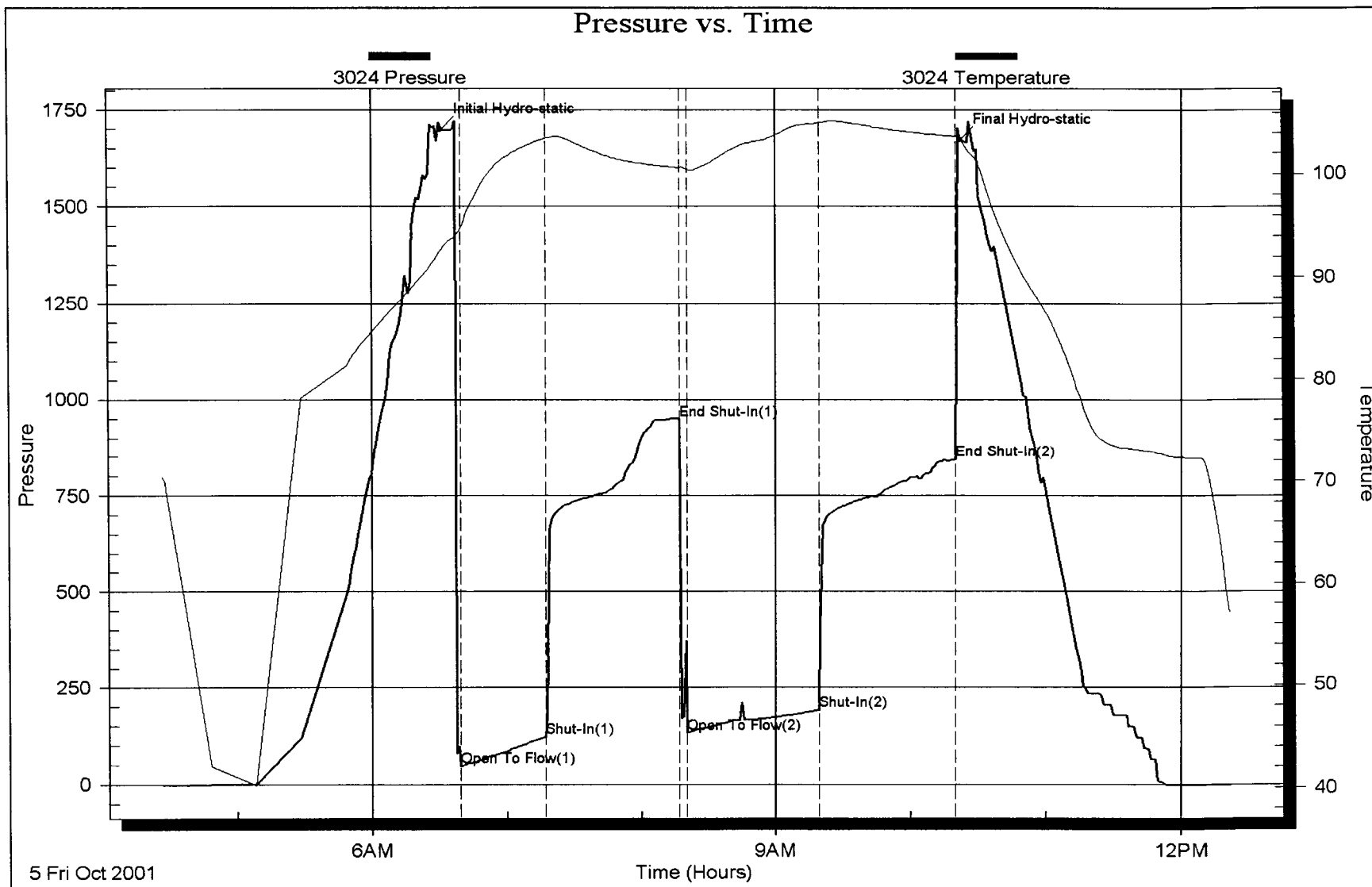
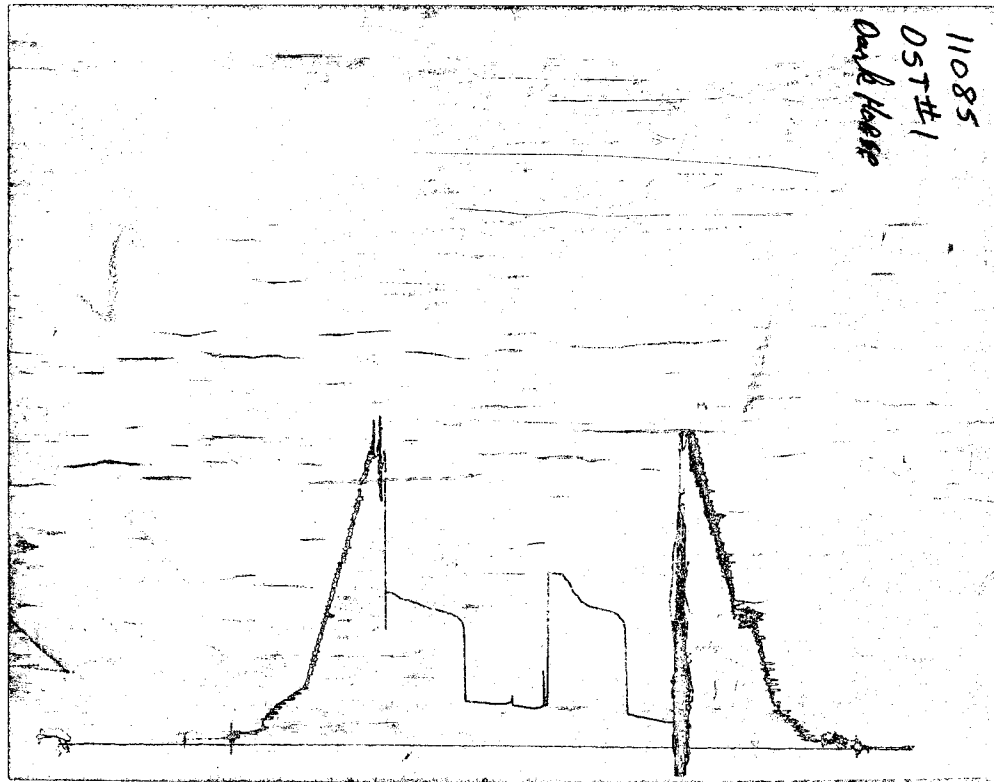
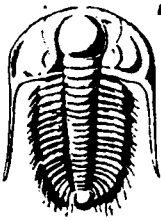


CHART PAGE

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





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 15296

Test Ticket

Well Name & No. Long Family Trust #1-13 Test No. 1 Date 10-5-01
 Company DARK HORSE OIL COMPANY Zone Tested POLLNOW
 Address 34861 FOREST PARK DRIVE ELIZABETH, CO. 80107-7879 Elevation 2698 KB 2693 GL
 Co. Rep / Geo. PAUL GUNZELMAN Cont. MURFIN RIG 3 Est. Ft. of Pay - Por. - %
 Location: Sec. 13 Twp. 2^s Rge. 27^w Co. DECATUR State KO
 No. of Copies Reg Distribution Sheet (Y, N) _____ Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested 3576-3598 Initial Str Wt./Lbs. 48000 Unseated Str Wt./Lbs. 51000
 Anchor Length 22 Wt. Set Lbs. 25000 Wt. Pulled Loose/Lbs. 60000
 Top Packer Depth 3571 Tool Weight 2200
 Bottom Packer Depth 3576 Hole Size — 7 7/8" yes Rubber Size — 6 3/4" yes
 Total Depth 3598 Wt. Pipe Run - Drill Collar Run 450
 Mud Wt. 8.8 LCM - Vis. 54 WL 6.8 Drill Pipe Size 4 1/2 XH Ft. Run 3110
 Blow Description IFP - WEAK TO A STRONG BLOW IN 20 min
FFP - WEAK TO A STRONG BLOW IN 28 min
HAD 1" BLOW BACK ON SLUT-IN

Recovery — Total Feet 500 GIP 600 Ft. in DC 450 Ft. in DP 50
 Rec. 120 Feet Of MGO 30 %gas 50 %oil %water 20 %mud
 Rec. 330 Feet Of CLEAN OIL %gas %oil %water %mud
 Rec. 50 Feet Of CLEAN OIL %gas %oil %water %mud
 Rec. _____ Feet Of _____ %gas %oil %water %mud
 Rec. _____ Feet Of _____ %gas %oil %water %mud
 BHT 103 °F Gravity 36 °API D@ 60 °F Corrected Gravity 36 °API
 RW - @ - °F Chlorides - ppm Recovery Chlorides 600 ppm System

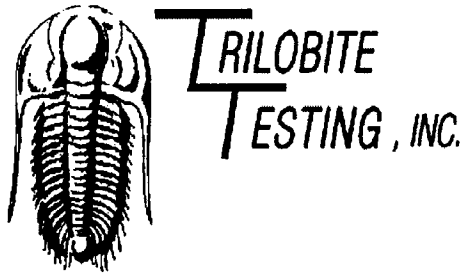
	AK-1	Alpine	PSI	Recorder No.	T-On Location
(A) Initial Hydrostatic Mud		<u>1698</u>		<u>3024</u>	<u>0400</u>
(B) First Initial Flow Pressure		<u>46</u>		(depth) <u>3577</u>	T-Started <u>0426</u>
(C) First Final Flow Pressure		<u>122</u>		PSI Recorder No. <u>11085</u>	T-Open <u>0625</u>
(D) Initial Shut-In Pressure		<u>948</u>		(depth) <u>3595</u>	T-Pulled <u>1005</u>
(E) Second Initial Flow Pressure		<u>132</u>		PSI Recorder No. <u>-</u>	T-Out <u>1200</u>
(F) Second Final Flow Pressure		<u>191</u>		(depth) <u>-</u>	T-Off Location <u>1230</u>
(G) Final Shut-in Pressure		<u>843</u>		PSI Initial Opening <u>40</u>	Test <u>700</u>
(Q) Final Hydrostatic Mud		<u>1671</u>		PSI Initial Shut-in <u>60</u>	Jars _____
				Final Flow <u>60</u>	Safety Joint <u>50</u>
				Final Shut-in <u>60</u>	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 RAU SCHWABER THANK YOU

Extra Packer _____
 Elec. Rec. 150
 Mileage 120
 Other _____
 TOTAL PRICE \$ 1020



DRILL STEM TEST REPORT

Prepared For: **Dark Horse Oil Co**

34861 Forest Park Drive
Elizabeth CO 80107-7879

ATTN: Doug Frickey

13-2s-27w Decatur KS

Long Family Trust #1-13

Start Date: 2001.10.05 @ 17:43:35

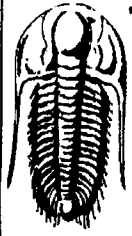
End Date: 2001.10.06 @ 00:45:34

Job Ticket #: 15297 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
34861 Forest Park Drive
Elizabeth CO 80107-7879
ATTN: Doug Frickey

Long Family Trust #1-13
13-2s-27w Decatur KS
Job Ticket: 15297 **DST#: 2**
Test Start: 2001.10.05 @ 17:43:35

GENERAL INFORMATION:

Formation: **LKC**
Deviated: **No Whipstock:** ft (KB)
Test Type: **Conventional Bottom Hole**
Time Tool Opened: **19:20:34**
Tester: **Ray Schwager**
Time Test Ended: **00:45:34**
Unit No: **16**
Interval: 3591.00 ft (KB) To 3613.00 ft (KB) (TVD)
Reference Elevations: **2698.00 ft (KB)**
Total Depth: **3598.00 ft (KB) (TVD)**
2693.00 ft (CF)
Hole Diameter: **7.85 inches** Hole Condition: **Fair**
KB to GR/CF: **5.00 ft**

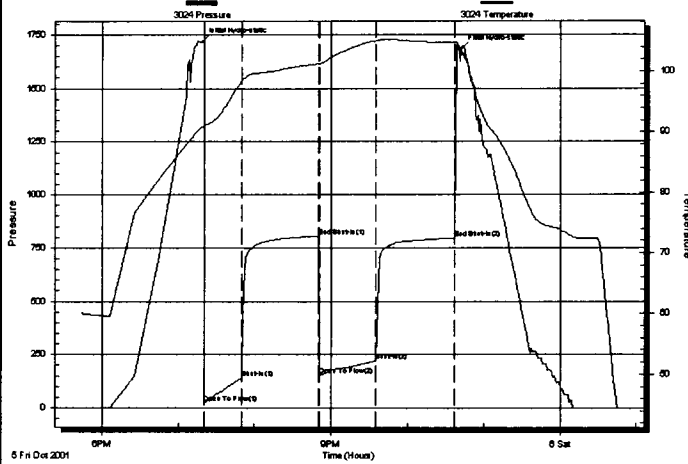
Serial #: 3024

Inside

Press@RunDepth: **219.90 psig @ 3592.01 ft (KB)** Capacity: **7000.00 psig**
Start Date: **2001.10.05** End Date: **2001.10.06** Last Calib.: **2001.10.06**
Start Time: **17:43:35** End Time: **00:45:34** Time On Btm: **2001.10.05 @ 19:19:04**
Time Off Btm: **2001.10.05 @ 22:42:04**

TEST COMMENT: IFF-wk to strg bl in 8 min
FFP-wk to strg bl in 13 min had 5" bl on shut-in
times 30-60-45-60

Pressure vs. Time



PRESSURE SUMMARY

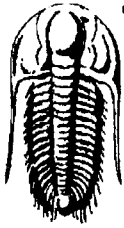
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1716.90	90.89	Initial Hydro-static
2	21.97	91.07	Open To Flow (1)
31	139.81	98.40	Shut-in(1)
91	805.34	101.25	End Shut-in(1)
92	150.89	101.30	Open To Flow (2)
136	219.90	104.99	Shut-in(2)
198	795.27	104.70	End Shut-in(2)
203	1681.13	103.42	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
150.00	SOCMW 1%oil 5%mud 94%w ater	0.74
90.00	MGO 25%gas 25%mud 50%oil	0.44
310.00	Clean Oil	2.44
410.00	GP	5.75

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

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

Long Family Trust #1-13
13-2s-27w Decatur KS
Job Ticket: 15297 **DST#: 2**
Test Start: 2001.10.05 @ 17:43:35

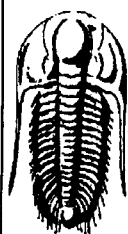
Tool Information

Drill Pipe:	Length: 3141.00 ft	Diameter: 3.80 inches	Volume: 44.06 bbl	Tool Weight: 2200.00 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: 450.00 ft	Diameter: 2.25 inches	Volume: 2.21 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 46.27 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	23.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3591.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	22.02 ft			
Tool Length:	45.02 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			3569.00	
S.I. Tool	5.00			3574.00	
HMV	5.00			3579.00	
Safety Joint	2.00			3581.00	
Packer	5.00			3586.00	23.00 Bottom Of Top Packer
Packer	5.00			3591.00	
Stubb	1.00			3592.00	
Recorder	0.01	3024	Inside	3592.01	
Perforations	18.00			3610.01	
Recorder	0.01	11085	Outside	3610.02	
Bullnose	3.00			3613.02	22.02 Bottom Packers & Anchor

Total Tool Length: 45.02



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Dark Horse Oil Co
34861 Forest Park Drive
Elizabeth CO 80107-7879

Long Family Trust #1-13
13-2s-27w Decatur KS
Job Ticket: 15297 **DST#: 2**
Test Start: 2001.10.05 @ 17:43:35

ATTN: Doug Frickey

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 36 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: 138000 ppm
Viscosity: 56.00 sec/qt	Cushion Volume: bbl	
Water Loss: 7.17 in ³	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 1000.00 ppm		
Filter Cake: 1.00 inches		

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
150.00	SOCMW 1%oil 5%mud 94%w ater	0.738
90.00	MGO 25%gas 25%mud 50%oil	0.443
310.00	Clean Oil	2.435
410.00	GIP	5.751

Total Length: 960.00 ft Total Volume: 9.367 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments: RW .1@44F

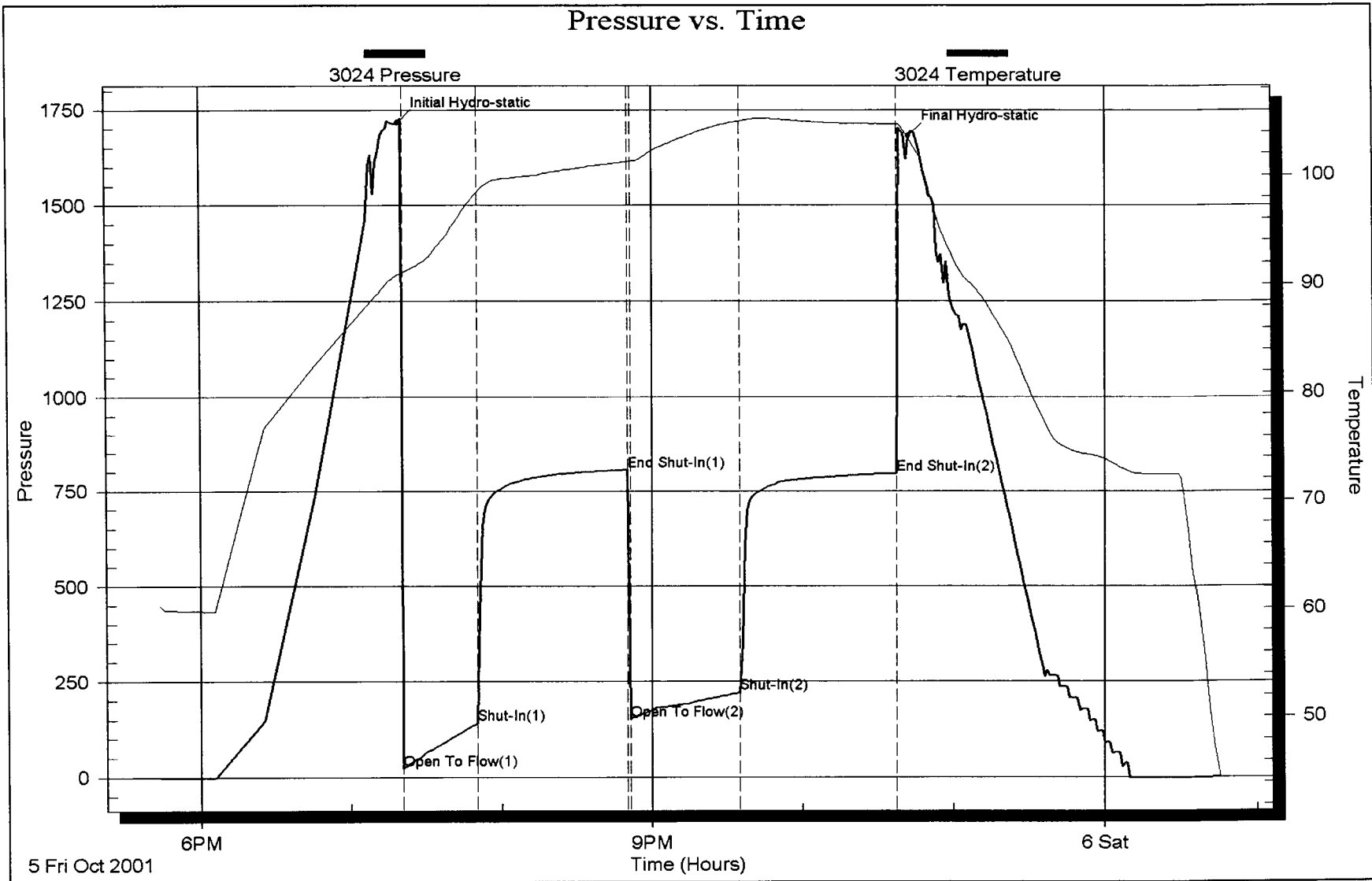
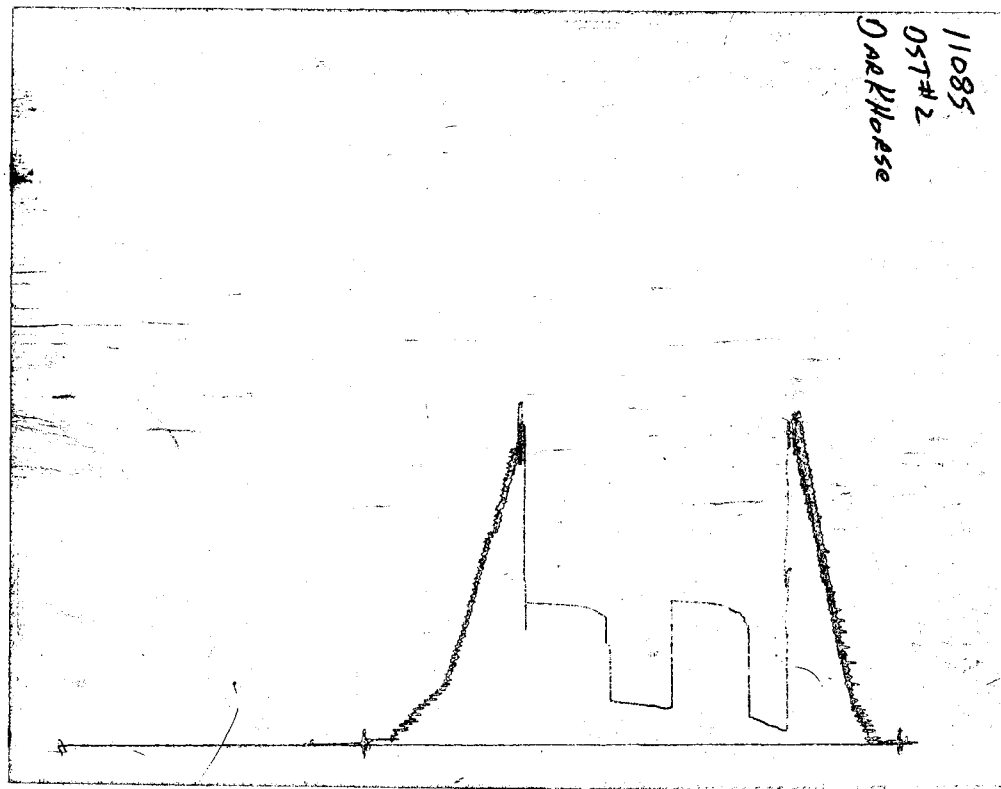
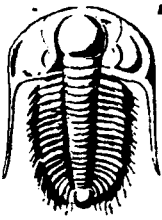


CHART PAGE

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





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 15297

Test Ticket

Well Name & No. Long Family TRUST #1-13 Test No. 2 Date 10-5-01
 Company DARK HORSE Oil Company Zone Tested LKC
 Address _____ Elevation 2698 KB 2623GL
 Co. Rep/Geo. Paul Gunzelman Cont. Martin rig 3 Est. Ft. of Pay - Por. - %
 Location: Sec. 13 Twp. 2^s Rge. 27^w Co. DECATUR State KO
 No. of Copies Reg Distribution Sheet (Y, N) _____ Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested 3591 - 3613 Initial Str Wt./Lbs. 50000 Unseated Str Wt./Lbs. 50000
 Anchor Length 22 Wt. Set Lbs. 25000 Wt. Pulled Loose/Lbs. 60000
 Top Packer Depth 3586 Tool Weight 2200
 Bottom Packer Depth 3591 Hole Size — 7 7/8" yes Rubber Size — 6 3/4" yes
 Total Depth 3613 Wt. Pipe Run - Drill Collar Run 450
 Mud Wt. 8.8 LCM TR Vis. 56 WL 7.2 Drill Pipe Size 4 1/2 x H Ft. Run 3141
 Blow Description IFP - WEAK TO A STRONG BLOW IN 8 min
FFP - WEAK TO A STRONG BLOW IN 13 min
HAD A 5" BLOW ON SHUT-IN

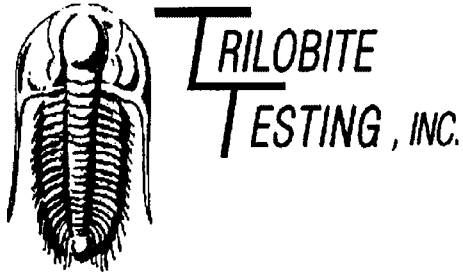
Recovery — Total Feet 550 GIP 410 Ft. in DC 450 Ft. in DP 100
 Rec. 150 Feet Of 50 CMW %gas 1 %oil 94 %water 5 %mud
 Rec. 90 Feet Of MGO 25%gas 50 %oil _____ %water 25 %mud
 Rec. 210 Feet Of CLEAN OIL %gas _____ %oil _____ %water _____ %mud
 Rec. 100 Feet Of CLEAN OIL %gas _____ %oil _____ %water _____ %mud
 Rec. _____ Feet Of _____ %gas _____ %oil _____ %water _____ %mud
 BHT 104 °F Gravity 36 °API D@ 60 °F Corrected Gravity 36 °API
 RW .1 @ 44 °F Chlorides 138000 ppm Recovery Chlorides 1000 ppm System

	AK-1	Alpine			
(A) Initial Hydrostatic Mud		<u>1716</u>	PSI Recorder No.	<u>3024</u>	T-On Location <u>1715</u>
(B) First Initial Flow Pressure		<u>21</u>	PSI (depth)	<u>3592</u>	T-Started <u>1743</u>
(C) First Final Flow Pressure		<u>139</u>	PSI Recorder No.	<u>11085</u>	T-Open <u>1910</u>
(D) Initial Shut-In Pressure		<u>805</u>	PSI (depth)	<u>3610</u>	T-Pulled <u>2225</u>
(E) Second Initial Flow Pressure		<u>150</u>	PSI Recorder No.	<u>-</u>	T-Out <u>1220</u>
(F) Second Final Flow Pressure		<u>219</u>	PSI (depth)	<u>-</u>	T-Off Location <u>1250</u>
(G) Final Shut-in Pressure		<u>795</u>	PSI Initial Opening	<u>30</u>	Test <input checked="" type="checkbox"/> <u>700</u>
(Q) Final Hydrostatic Mud		<u>1681</u>	PSI Initial Shut-in	<u>60</u>	Jars _____
			Final Flow	<u>45</u>	Safety Joint <input checked="" type="checkbox"/> <u>50</u>
			Final Shut-in	<u>60</u>	Straddle _____
					Circ. Sub _____
					Sampler _____
					Extra Packer _____
					Elec. Rec. <input checked="" type="checkbox"/> <u>150</u>
					Mileage <input checked="" type="checkbox"/> <u>15</u>
					Other _____
					TOTAL PRICE \$ <input checked="" type="checkbox"/> <u>915</u>

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 RAY SCHWAGER THANK YOU



DRILL STEM TEST REPORT

Prepared For: **Dark Horse Oil Co**

34861 Forest Park Drive
Elizabeth CO 80107-7879

ATTN: Doug Frickey

13-2s-27w Decatur KS

Long Family Trust #1-13

Start Date: 2001.10.06 @ 11:31:56

End Date: 2001.10.06 @ 18:29:25

Job Ticket #: 15298 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Dark Horse Oil Co

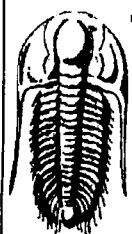
Long Family Trust #1-13

13-2s-27w Decatur KS

DST # 3

LKC H-J&K

2001.10.06



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Dark Horse Oil Co
34861 Forest Park Drive
Elizabeth CO 80107-7879

Long Family Trust #1-13
13-2s-27w Decatur KS
Job Ticket: 15298 **DST#: 3**
Test Start: 2001.10.06 @ 11:31:56

ATTN: Doug Frickey

GENERAL INFORMATION:

Formation: **LKC H-J&K**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 13:31:55
Time Test Ended: 18:29:25
Interval: **3654.00 ft (KB) To 3744.00 ft (KB) (TVD)**
Total Depth: **3598.00 ft (KB) (TVD)**
Hole Diameter: 7.85 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole
Tester: Ray Schwager
Unit No: 16
Reference Elevations: 2698.00 ft (KB)
2693.00 ft (CF)
KB to GR/CF: 5.00 ft

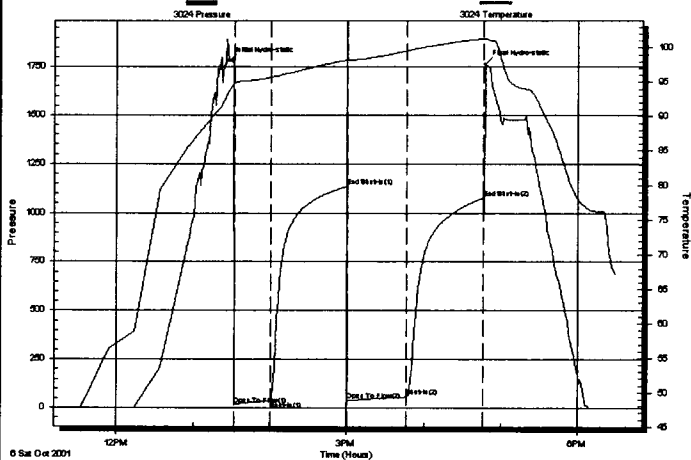
Serial #: 3024

Inside

Press@RunDepth: 57.56 psig @ 3661.01 ft (KB) Capacity: 7000.00 psig
Start Date: 2001.10.06 End Date: 2001.10.06 Last Calib.: 2001.10.06
Start Time: 11:31:56 End Time: 18:29:25 Time On Btm: 2001.10.06 @ 13:27:25
Time Off Btm: 2001.10.06 @ 16:47:25

TEST COMMENT: IFP-vy w k bl throughout 1/4" to surface bl
FFP-w k surface bl throughout
times 30-60-45-60

Pressure vs. Time



PRESSURE SUMMARY

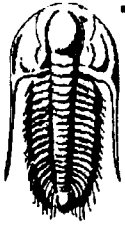
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1782.13	93.64	Initial Hydro-static
5	17.59	94.87	Open To Flow (1)
33	34.41	95.73	Shut-In(1)
93	1135.35	98.28	End Shut-In(1)
93	38.74	98.25	Open To Flow (2)
139	57.56	99.58	Shut-In(2)
199	1077.35	101.35	End Shut-In(2)
200	1763.66	101.35	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
75.00	mud	0.37

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

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

Long Family Trust #1-13
13-2s-27w Decatur KS
Job Ticket: 15298 **DST#: 3**
Test Start: 2001.10.06 @ 11:31:56

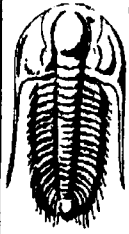
Tool Information

Drill Pipe:	Length: 3203.00 ft	Diameter: 3.80 inches	Volume: 44.93 bbl	Tool Weight: 2200.00 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: 450.00 ft	Diameter: 2.25 inches	Volume: 2.21 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 47.14 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	22.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3654.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	90.02 ft			
Tool Length:	113.02 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			3632.00	
S.I. Tool	5.00			3637.00	
HMV	5.00			3642.00	
Safety Joint	2.00			3644.00	
Packer	5.00			3649.00	23.00 Bottom Of Top Packer
Packer	5.00			3654.00	
Stubb	1.00			3655.00	
Perforations	5.00			3660.00	
C.O. Sub	1.00			3661.00	
Recorder	0.01	3024	Inside	3661.01	
Blank Spacing	61.00			3722.01	
C.O. Sub	1.00			3723.01	
Recorder	0.01	11085	Outside	3723.02	
Perforations	18.00			3741.02	
Bullnose	3.00			3744.02	90.02 Bottom Packers & Anchor

Total Tool Length: 113.02



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Dark Horse Oil Co
34861 Forest Park Drive
Elizabeth CO 80107-7879

Long Family Trust #1-13
13-2s-27w Decatur KS
Job Ticket: 15298 **DST#: 3**
Test Start: 2001.10.06 @ 11:31:56

ATTN: Doug Frickey

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: 54.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.00 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 1000.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
75.00	mud	0.369

Total Length: 75.00 ft Total Volume: 0.369 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments:

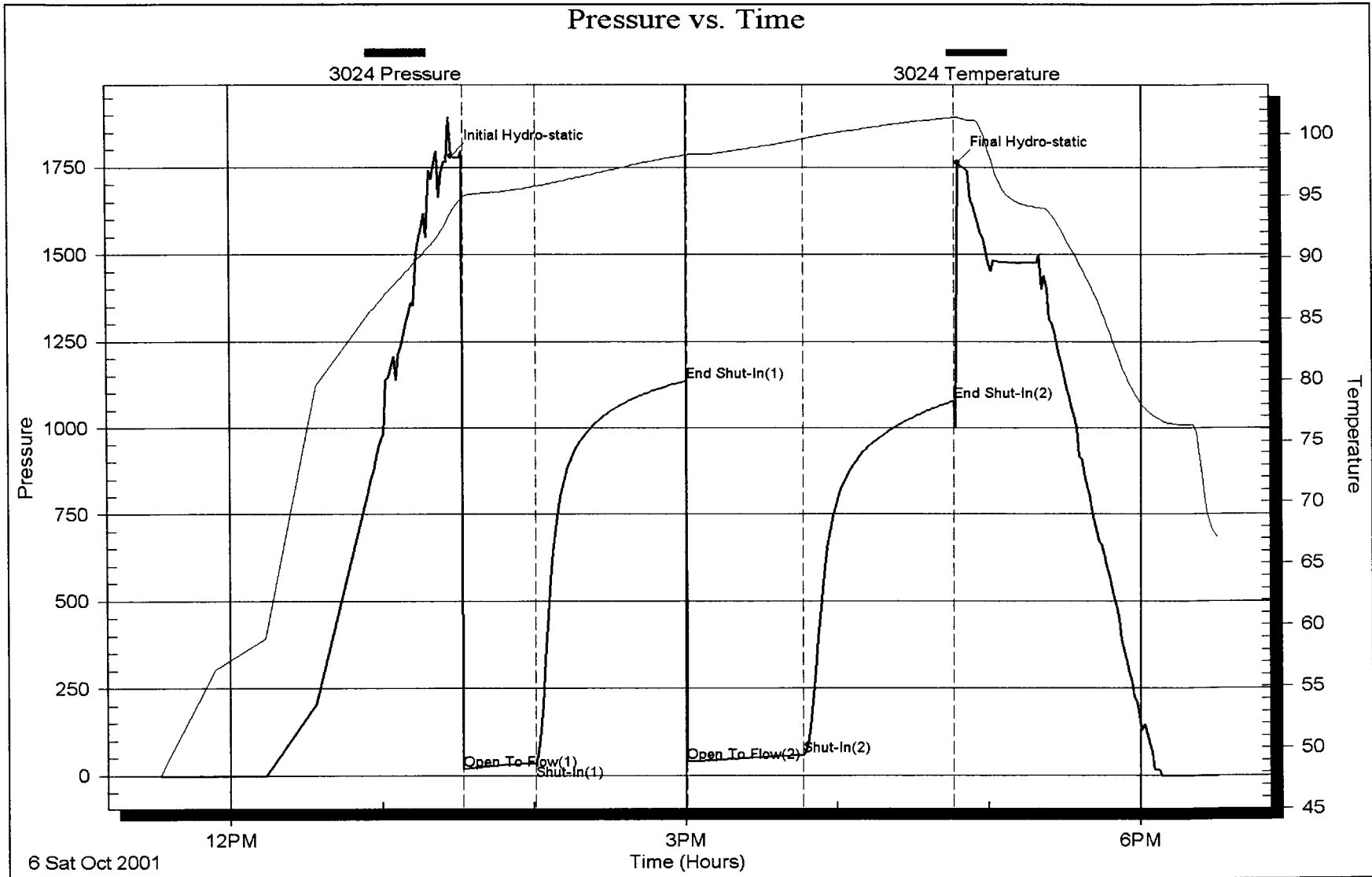
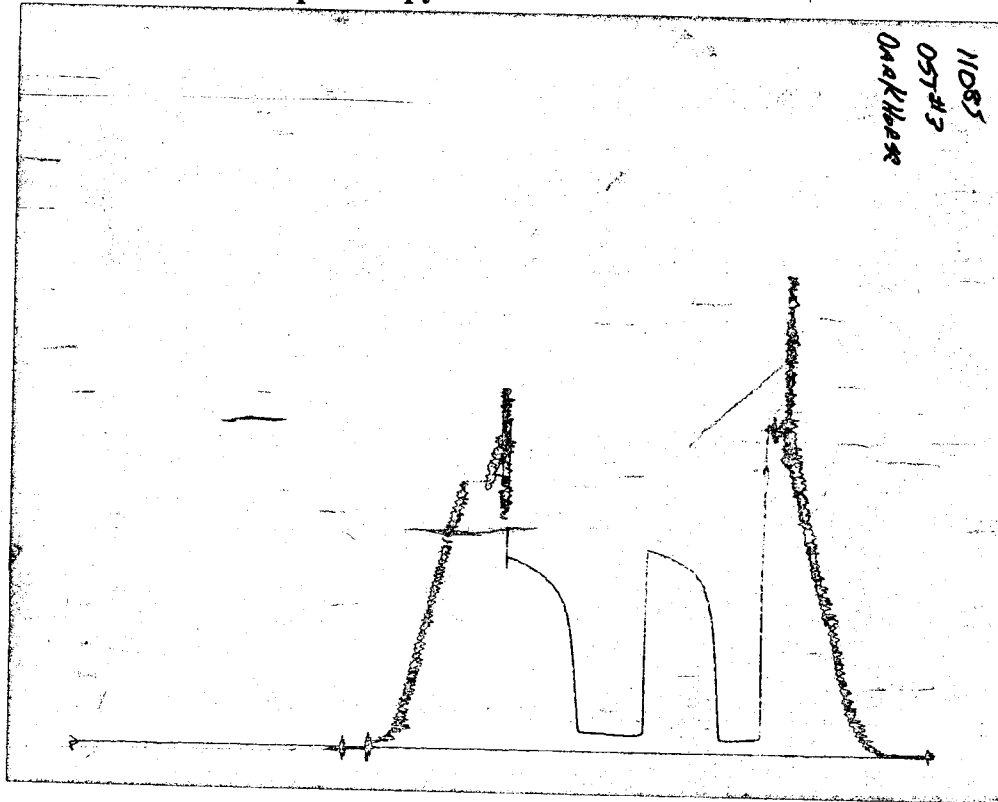
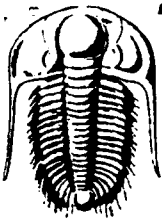


CHART PAGE

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





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 15298

Test Ticket

Well Name & No. Long Family Trust #1-13 Test No. 3 Date 10-6-01
 Company DARK HORSE OIL COMPANY Zone Tested LKC H-J+K
 Address _____ Elevation 2698 KB 2693 GL
 Co. Rep / Geo. Paul Gunzelman Cont. MURFIN 5193 Est. Ft. of Pay _____ Por. _____ %
 Location: Sec. 13 Twp. 2 Rge. 27 Co. DECATUR State Ks
 No. of Copies Rq Distribution Sheet (Y, N) _____ Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested 3654-3744 Initial Str Wt./Lbs. 5000 Unseated Str Wt./Lbs. 5000
 Anchor Length 90 Wt. Set Lbs. 25000 Wt. Pulled Loose/Lbs. 6000
 Top Packer Depth 3649 Tool Weight 2200
 Bottom Packer Depth 3654 Hole Size — 7 7/8" yes Rubber Size — 6 3/4" yes
 Total Depth 3744 Wt. Pipe Run _____ Drill Collar Run 45°
 Mud Wt. 8.8 LCM 54 Vis. 54 WL 7 Drill Pipe Size 4 1/2 X H Ft. Run 3203
 Blow Description IFP - Very Weak Blow throughout 1/4" To surface Blow
FFP - Weak surface Blow throughout

Recovery — Total Feet 75 GIP _____ Ft. in DC 75 Ft. in DP _____
 Rec. 75 Feet Of FFP 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 101 °F Gravity _____ °API D@ _____ °F Corrected Gravity _____ °API _____
 RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 1000 ppm System

	AK-1	Alpine	PSI	Recorder No.	T-On Location
(A) Initial Hydrostatic Mud		<u>1782</u>		<u>3024</u>	<u>1100</u>
(B) First Initial Flow Pressure		<u>17</u>		(depth) <u>3661</u>	T-Started <u>1130</u>
(C) First Final Flow Pressure		<u>34</u>		PSI Recorder No. <u>11085</u>	T-Open <u>1320</u>
(D) Initial Shut-In Pressure		<u>1135</u>		(depth) <u>3723</u>	T-Pulled <u>1635</u>
(E) Second Initial Flow Pressure		<u>38</u>		PSI Recorder No. _____	T-Out <u>1820</u>
(F) Second Final Flow Pressure		<u>57</u>		(depth) _____	T-Off Location <u>1900</u>
(G) Final Shut-in Pressure		<u>1077</u>		PSI Initial Opening <u>30</u>	Test <input checked="" type="checkbox"/> <u>700</u>
(Q) Final Hydrostatic Mud		<u>1763</u>		PSI Initial Shut-in <u>60</u>	Jars _____
				Final Flow <u>45</u>	Safety Joint <input checked="" type="checkbox"/> <u>50</u>
				Final Shut-in <u>60</u>	Straddle _____

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Approved By Paul Gunzelman

Our Representative RAU SCHWAGER THANK YOU

Circ. Sub _____
 Sampler _____
 Extra Packer _____
 Elec. Rec 150
 Mileage 15
 Other _____
 TOTAL PRICE \$ 915