

STATE CORPORATION COMMISSION OF KANSAS
OIL & GAS CONSERVATION DIVISION
WELL COMPLETION FORM
ACO-1 WELL HISTORY
DESCRIPTION OF WELL AND LEASE

API NO. 15- 039-20923-0000

County Decatur

Approx. - C N/2-NW Sec. 24 Twp. 2-S Rge. 27 X (W)^E

Operator: License # 31956

Name: Dark Horse Oil Company

Address 34861 Forest Park Drive

City/State/Zip Elizabeth, CO 80107

Purchaser: NCRA

Operator Contact Person: Douglas C. Frickey

Phone (303) 646-5156

Contractor: Name: Murfin Drilling Company

License: 30606

Wellsite Geologist: Paul M. Gunzelman

Designate Type of Completion

New Well Re-Entry Workover

Oil SWD SLOW Temp. Abd.
 Gas ENHR SIGW
 Dry Other (Core, WSW, Expl., Cathodic, etc)

If Workover/Reentry: Old Well Info as follows:

Operator: _____

Well Name: _____

Comp. Date _____ Old Total Depth _____

Deepening Re-perf. Conv. to Inj/SWD
 Plug Back PBTB
 Commingled Docket No. _____
 Dual Completion Docket No. _____
 Other (SWD or Inj?) Docket No. _____

3/26/2002 4/01/2002 4/23/2002
Spud Date Date Reached TD Completion Date

745 Feet from S(N)(circle one) Line of Section

1410 Feet from E(W)(circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:
NE, SE, (NW) or SW (circle one)

Lease Name Long Family Trust Well #: 1-24

Field Name Monaghan NE

Producing Formation Lansing "Pollnow" Zone

Elevation: Ground 2677 ft. KB 2682 ft.

Total Depth 3806 ft. PBTB 3754 ft.

Amount of Surface Pipe Set and Cemented at 304 Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set 2200 Feet

If Alternate II completion, cement circulated from 2200

feet depth to Surface w/ 450 sx cmt.

Drilling Fluid Management Plan All 11 EH 7-8-02
(Data must be collected from the Reserve Pit)

Chloride content 1100 ppm Fluid volume 375 bbls

Dewatering method used Evaporation

Location of fluid disposal if hauled offsite:

Operator Name _____

Lease Name _____ License No. _____

_____ Quarter Sec. _____ Twp. _____ S Rng. _____ E/W

County _____ Docket No. _____

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 130 S. Market - Room 2078, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information on side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form (see rule 82-3-107 for confidentiality in excess of 12 months). One copy of all wireline logs and geologist well report shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

All requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Signature [Signature]

Title President Date 6/19/02

Subscribed and sworn to before me this 19th day of June, 2002.

Notary Public [Signature]

Date Commission Expires 7/22/04

K.C.C. OFFICE USE ONLY
FV NO Letter of Confidentiality Attached
C Wireline Log Received
C Geologist Report Received
Distribution
____ KCC _____ SWD/Rep _____ NGPA
____ KGS _____ Plug _____ Other
(Specify)

KCC WICHITA
6-24-2002

SIDE TWO

Operator Name Dark Horse Oil Company

Lease Name Long Family Trust Well # 1-24

Sec. 24 Twp. 2-S Rge. 27

East
 West

County Decatur

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all drill stem tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface during test. Attach extra sheet if more space is needed. Attach copy of log.

Drill Stem Tests Taken Yes No
(Attach Additional Sheets.)

Samples Sent to Geological Survey Yes No

Cores Taken Yes No

Electric Log Run Yes No
(Submit Copy.)

List All E.Logs Run: Dual Induction w/GR
Compensated Neutron Density w/PE
Dual Receiver Cement Bond Log

Log Formation (Top), Depth and Datums Sample

Name	Top	Datum
Top Stone Corral	2192	+490
Base Stone Corral	2226	+456
Topeka	3342	-660
Heebner Shale	3508	-826
Toronto	3537	-855
Lansing	3550	-868
Base/Kansas City	3750	-1068
Total Depth	3806	-1124

CASING RECORD

New Used

Report all strings set-conductor, surface, intermediate, production, etc.

Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs./Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
SURFACE	12-1/4"	8-5/8"	23#	304'	COMMON	185	3%cc 2%gel
PRODUCTION	7-7/8"	4-1/2"	10.5#	3796'	ASC	175	2% gel 500 gal. WFR-2

ADDITIONAL CEMENTING/SQUEEZE RECORD

Purpose:	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
<input checked="" type="checkbox"/> Perforate <input checked="" type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone	2200'	60/40 POZ	450	6% gel and 1/4# flo-seal

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used) Depth	
		Amount	Depth
Four (4)	3580' thru 3582' (Pollnow Zone)	250 gal. of 15% MCA	3580'
		1500 gal. of 20% SGA	3580'

TUBING RECORD	Size	Set At	Packer At	Liner Run
	2-3/8"	3748.00'	NA	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumed Production, SWD or Inj.	Producing Method			
6/14/2002	<input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)			
Estimated Production Per 24 Hours	Oil 30 Bbls.	Gas Mcf	Water 150 Bbls.	Gas-Oil Ratio Gravity 35°

Disposition of Gas: Vented Sold Used on Lease (If vented, submit ACO-18.)

METHOD OF COMPLETION: Open Hole Perf. Dually Comp. Commingled Other (Specify) _____

Production Interval: 3580' - 3582'

ALLIED CEMENTING CO., INC.

P.O. BOX 31
 RUSSELL, KS 67665
 PH (785) 483-3887
 FAX (785) 483-5566
 FEDERAL TAX ID#

ORIGINAL

 * I N V O I C E *

Invoice Number: 086837

Invoice Date: 03/31/02

Sold Dark Horse Oil Company
 To: 34861 Forest Park DR
 Elizabeth, CO
 80107

RECEIVED
 KCC WICHITA

Cust I.D.: Dark
 P.O. Number: LongFamily1-24
 P.O. Date: 03/31/02
 Due Date: 04/30/02
 Terms: Net 30

Item I.D./Desc.	Qty. Used	Unit	Price	Net	TX
Common	180.00	SKS	7.8500	1413.00	E
Chloride	5.00	SKS	30.0000	150.00	E
Gel	3.00	SKS	10.0000	30.00	E
Handling	188.00	SKS	1.1000	206.80	E
Mileage (70)	70.00	MILE	7.5200	526.40	E
188 sks @ \$.04 per sk per mi					
Surface	1.00	JOB	520.0000	520.00	E
Mileage pmp trk	70.00	MILE	3.0000	210.00	E
Surface plug	1.00	EACH	45.0000	45.00	E

All Prices Are Net, Payable 30 Days Following
 Date of Invoice 1 1/2% Charged Thereafter.
 If Account CURRENT take Discount of \$ 310.12
 ONLY if paid within 30 days from Invoice Date

Subtotal: 3101.20
 Tax: 0.00
 Payments: 0.00
 Total: 3101.20
 - 310.12
\$ 2791.08

ALLIED CEMENTING CO., INC.

P.O. BOX 31
 RUSSELL, KS 67665
 PH (785) 483-3887
 FAX (785) 483-5566
 FEDERAL TAX ID# ██████████

***** ORIGINAL *****
 * INVOICE *

Invoice Number: 086913

Invoice Date: 04/10/02

Sold Dark Horse Oil Company
 To: 34861 Forest Park DR
 Elizabeth, CO
 80107

Due Date.: 05/10/02
 Terms.....: Net 30

Cust I.D.....: Dark
 P.O. Number...: LongFm TR 1-24
 P.O. Date.....: 04/10/02

Item I.D./Desc.	Qty. Used	Unit	Price	Net	TX
ASC	175.00	SKS	9.3500	1636.25	E
Gel	3.00	SKS	10.0000	30.00	E
WFR-2	500.00	GAL	1.0000	500.00	E
Handling	188.00	SKS	1.1000	206.80	E
Mileage (70)	70.00	MILE	7.5200	526.40	E
188 sks @\$.04 per sk per mi					
Bottom Stage	1.00	JOB	1130.0000	1130.00	E
Mileage pmp trk	70.00	MILE	3.0000	210.00	E
Guide Shoe	1.00	EACH	125.0000	125.00	E
AFU Insert	1.00	EACH	210.0000	210.00	E
Centralizers	9.00	EACH	45.0000	405.00	E
Baskets	3.00	EACH	116.0000	348.00	E
DV Tool	1.00	EACH	3000.0000	3000.00	E

All Prices Are Net, Payable 30 Days Following Subtotal: 8327.45
 Date of Invoice: 1 1/2% Charged Thereafter. Tax.....: 0.00
 If Account CURRENT take Discount of \$ 832.75 Payments: 0.00
 ONLY if paid within 30 days from Invoice Date Total...: 8327.45
 - 832.75
\$ 7494.70

RECEIVED
 JUN 24 2002
 KCC WICHITA

ALLIED CEMENTING CO., INC.

09319

Federal Tax I.D.# XXXXXXXXXX

REMIT TO P.O. BOX 31
RUSSELL, KANSAS 67665

SERVICE POINT
ORIGINAL
OAKLEY

DATE <u>4-1-02</u>	SEC. <u>24</u>	TWP. <u>2S</u>	RANGE <u>27W</u>	CALLED OUT	ON LOCATION <u>2:15 AM</u>	JOB START <u>9:30 AM</u>	JOB FINISH <u>10:00 AM</u>
LEASE <u>LONG FAMILY TRUST</u>	WELL # <u>1-24</u>	LOCATION <u>OBERLIN 12 E-3N-1/2 E</u>		COUNTY <u>DECATUR</u>	STATE <u>Ks</u>		
OLD OR <u>NEW</u> (Circle one)							

CONTRACTOR <u>MURFIN DRILL RIG #8</u>	OWNER <u>SAME</u>
TYPE OF JOB <u>Production Stencil Bottom Stage</u>	
HOLE SIZE <u>7 7/8"</u>	T.D. <u>3820'</u>
CASING SIZE <u>4 1/2"</u>	DEPTH <u>3796'</u>
TUBING SIZE	DEPTH
DRILL PIPE	DEPTH
TOOL <u>D-U TOOL</u>	DEPTH <u>2200'</u>
PRES. MAX <u>1500 PSI</u>	MINIMUM <u>300 PSI</u>
MEAS. LINE	SHOE JOINT <u>42.70'</u>
CEMENT LEFT IN CSG. <u>42.70'</u>	
PERFS.	
DISPLACEMENT <u>35 BBL WATER 25 BBL MUD</u>	
EQUIPMENT <u>MUD</u>	
PUMP TRUCK # <u>300</u>	CEMENTER <u>TERRY</u>
	HELPER <u>WAYNE</u>
BULK TRUCK # <u>315</u>	DRIVER <u>FUZZY</u>
BULK TRUCK # <u>357</u>	DRIVER <u>JIMMY</u>
	TOTAL <u>2,899.45</u>

CEMENT			
AMOUNT ORDERED			
<u>ASC</u>	<u>175 SKS</u>	@ <u>9.35</u>	<u>1,636.25</u>
COMMON			
POZMIX		@	
GEL	<u>3 SKS</u>	@ <u>10.00</u>	<u>30.00</u>
CHLORIDE		@	
<u>WFR-2</u>	<u>500 gal</u>	@ <u>1.00</u>	<u>500.00</u>
		@	
		@	
		@	
		@	
HANDLING	<u>188</u>	@ <u>1.10</u>	<u>206.80</u>
MILEAGE	<u>4¢ per sk/mile</u>		<u>526.40</u>
			TOTAL <u>2,899.45</u>

REMARKS:

MIX 500 GAL WFR-2 Followed
BY 175 SKS ASC 29.6 GEL +
DISPLACE W/ 35 BBL WATER 25 BBL
MUD.
PLUG LANDED
FLOAT HELD

Thank you

SERVICE

DEPTH OF JOB	<u>3796'</u>		
PUMP TRUCK CHARGE			<u>1,130.00</u>
EXTRA FOOTAGE		@	
MILEAGE	<u>70 miles</u>	@ <u>3.00</u>	<u>210.00</u>
PLUG		@	
		@	
		@	
		@	
			TOTAL <u>1,340.00</u>

CHARGE TO: DARK HORSE OIL, CO.

STREET _____

CITY _____ STATE _____ ZIP _____

FLOAT EQUIPMENT

<u>1- GUARD SHOE</u>	@	<u>125.00</u>
<u>1- AFU INSERT</u>	@	<u>210.00</u>
<u>9- CENTRALIZERS</u>	@ <u>45.00</u>	<u>405.00</u>
<u>3- BASKETS</u>	@ <u>116.00</u>	<u>348.00</u>
<u>1- D-U TOOL</u>	@	<u>3000.00</u>
		TOTAL <u>4,088.00</u>

To Allied Cementing Co., Inc.
You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read & understand the "TERMS AND CONDITIONS" listed on the reverse side.

SIGNATURE David Belkredo

TAX _____

TOTAL CHARGE _____

DISCOUNT _____ IF PAID IN 30 DAYS

PRINTED NAME

ALLIED CEMENTING CO., INC.

P.O. BOX 31
 RUSSELL, KS 67665
 PH (785) 483-3887
 FAX (785) 483-5566
 FEDERAL TAX ID#

***** ORIGINAL *****

* INVOICE *

Invoice Number: 086914

Invoice Date: 04/10/02

Sold Dark Horse Oil Company
 To: 34861 Forest Park DR
 Elizabeth, CO
 80107

Cust I.D.: Dark
 P.O. Number...: LongFM TR 1-24
 P.O. Date.....: 04/10/02

Due Date.: 05/10/02
 Terms....: Net 30

Item I.D./Desc.	Qty. Used	Unit	Price	Net	TX
Common	255.00	SKS	7.8500	2001.75	E
Pozmix	170.00	SKS	3.5500	603.50	E
Gel	23.00	SKS	10.0000	230.00	E
ASC	50.00	SKS	9.3500	467.50	E
FloSeal	106.00	LBS	1.4000	148.40	E
Handling	505.00	SKS	1.1000	555.50	E
Mileage (70)	70.00	MILE	20.2000	1414.00	E
505 sks @ \$.04 per sk per mi					
Top Stage	1.00	JOB	650.0000	650.00	E

All Prices Are Net, Payable 30 Days Following
 Date of Invoice. 1-1/2% Charged Thereafter.
 If Account CURRENT take Discount of \$ 607.06
 ONLY if paid within 30 days from Invoice Date

Subtotal: 6070.65
 Tax..... 0.00
 Payments: 0.00
 Total.... 6070.65
 - 607.06
\$ 5463.59

RECEIVED
 JUN 24 2002
 KCC WICHITA

ORIGINAL

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

RECEIVED
JUN 24 2011
KCC WICHITA

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.

ORIGINAL

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

RECEIVED
JULY 24 1998
KCC WICHITA

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.

ORIGINAL

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

RECEIVED
APR 24
KCC WICHITA

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.

ORIGINAL

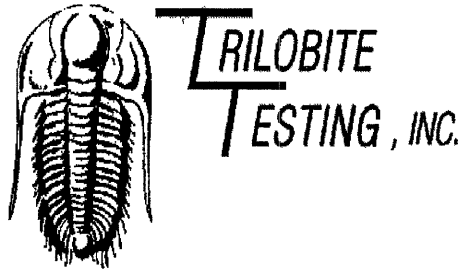
Continued swabbing hole down and recovering heavy fines and drilling mud. Rigged up Swift Acid Services. Start acid...1500 gallons of 20% SGA (slightly gelled) acid...acid in. Treat zone with a maximum pressure of 625 lbs. and a maximum rate of 1.3 barrel per minute. Initial shut in pressure of 575 lbs. 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.

RECEIVED
JUN 24 11
KCC WICHITA

RECEIVED
JUL 05 2002
KCC WICHITA



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

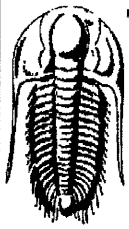
End Date: 2002.03.30 @ 15:58:47

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

Start Time: 08:38:18

End Date:

End Time:

2002.03.30

15:58:47

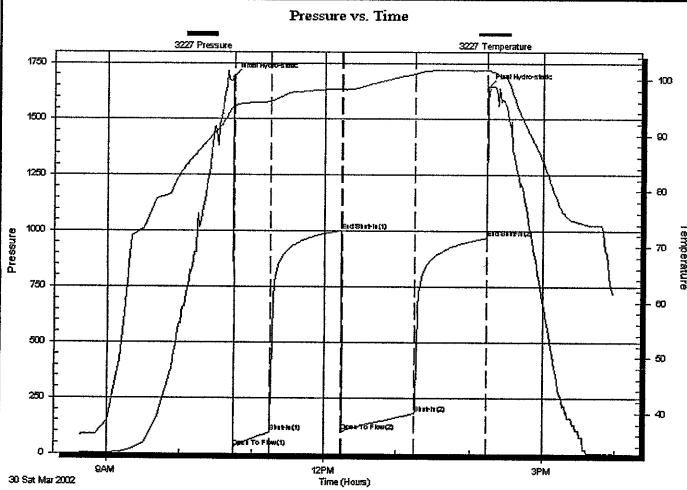
Capacity: 7000.00 psig

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

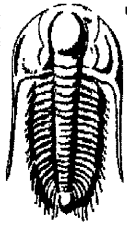
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1686.87	95.28	Initial Hydro-static
1	30.51	95.24	Open To Flow (1)
31	96.74	96.14	Shut-In(1)
90	1001.35	98.39	End Shut-In(1)
91	100.55	98.31	Open To Flow (2)
151	182.26	101.05	Shut-In(2)
210	970.45	101.66	End Shut-In(2)
211	1642.79	101.72	Final Hydro-static

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)



**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

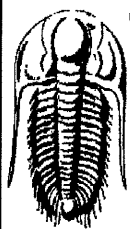
Drill Pipe:	Length: 2965.00 ft	Diameter: 3.80 inches	Volume: 41.59 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 530.00 ft	Diameter: 2.25 inches	Volume: 2.61 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: 44.20 bbl</u>	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:				

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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

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

25500 ppm

Viscosity: 45.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.17 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 600.00 ppm

Filter Cake: 1.00 inches

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

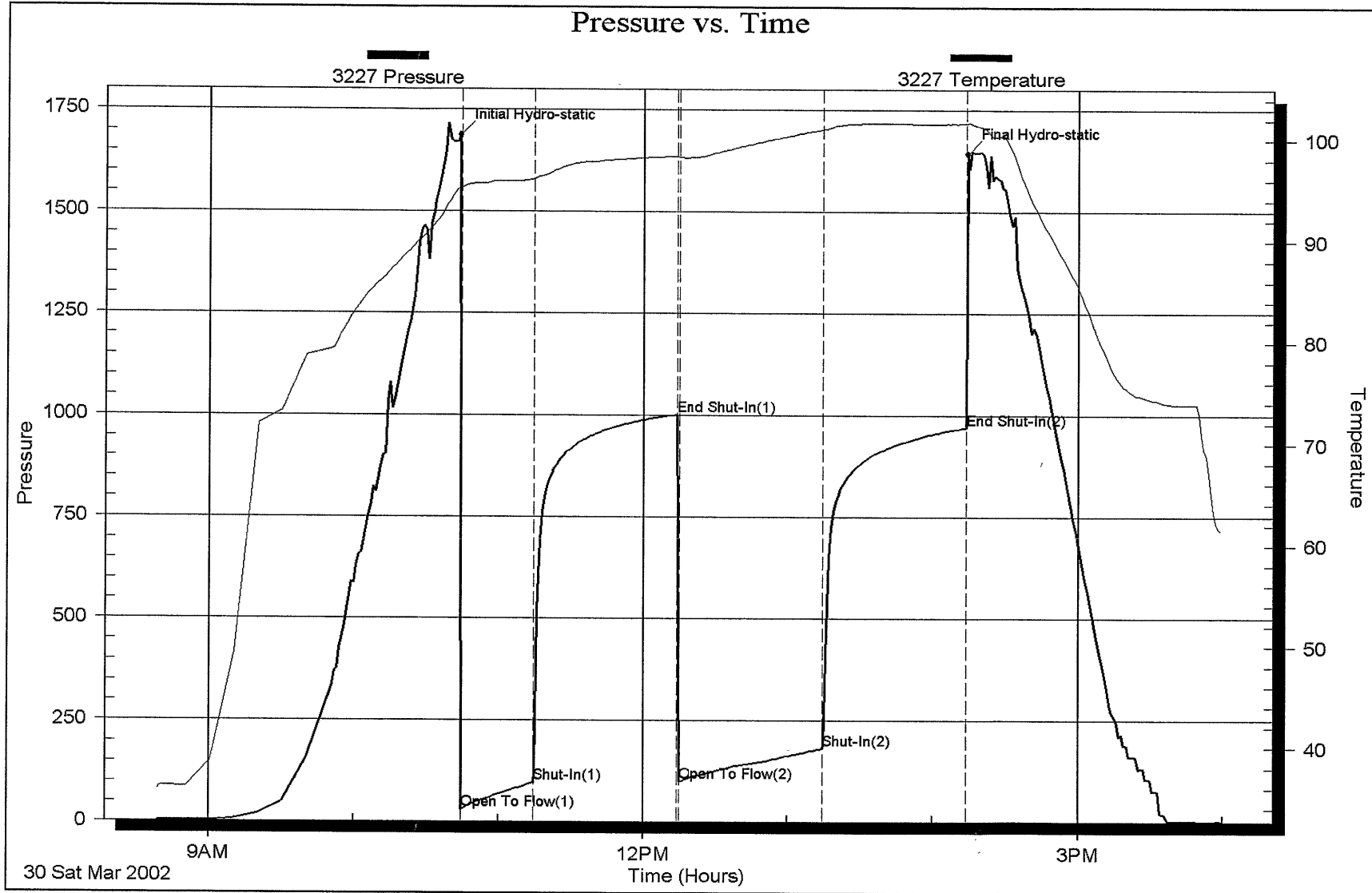
Num Gas Bombs: 0

Serial #:

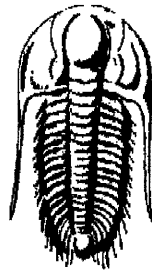
Laboratory Name:

Laboratory Location:

Recovery Comments: RW .260@68 degree F



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TESTING, INC.**

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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

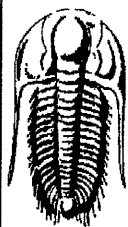
End Date: 2002.03.31 @ 03:50:23

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)**

Reference Elevations: 2682.00 ft (KB)

Total Depth: 3585.00 ft (KB) (TVD)

2677.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 3227

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

Capacity: 7000.00 psig

Start Date: 2002.03.30

End Date:

2002.03.31

Last Calib.: 1899.12.30

Start Time: 20:41:24

End Time:

03:50:23

Time On Btm: 2002.03.30 @ 22:10:53

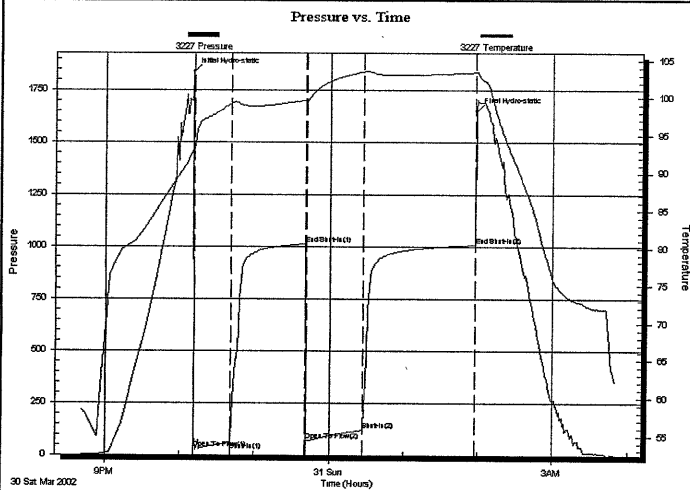
Time Off Btm: 2002.03.31 @ 01:58:23

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

No return

Surface blow built to 1 1/2"

No return



PRESSURE SUMMARY

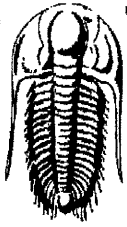
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1836.29	93.08	Initial Hydro-static
1	31.98	93.17	Open To Flow (1)
30	64.22	99.25	Shut-In(1)
90	1011.77	99.70	End Shut-In(1)
91	69.91	99.65	Open To Flow (2)
136	120.60	103.51	Shut-In(2)
227	1007.66	103.41	End Shut-In(2)
228	1650.36	103.50	Final Hydro-static

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)



**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

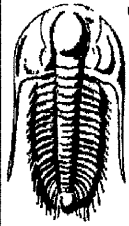
Drill Pipe:	Length: 3030.00 ft	Diameter: 3.80 inches	Volume: 42.50 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 530.00 ft	Diameter: 2.25 inches	Volume: 2.61 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: 45.11 bbl</u>	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:				

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Tool Description

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:

bbbl

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

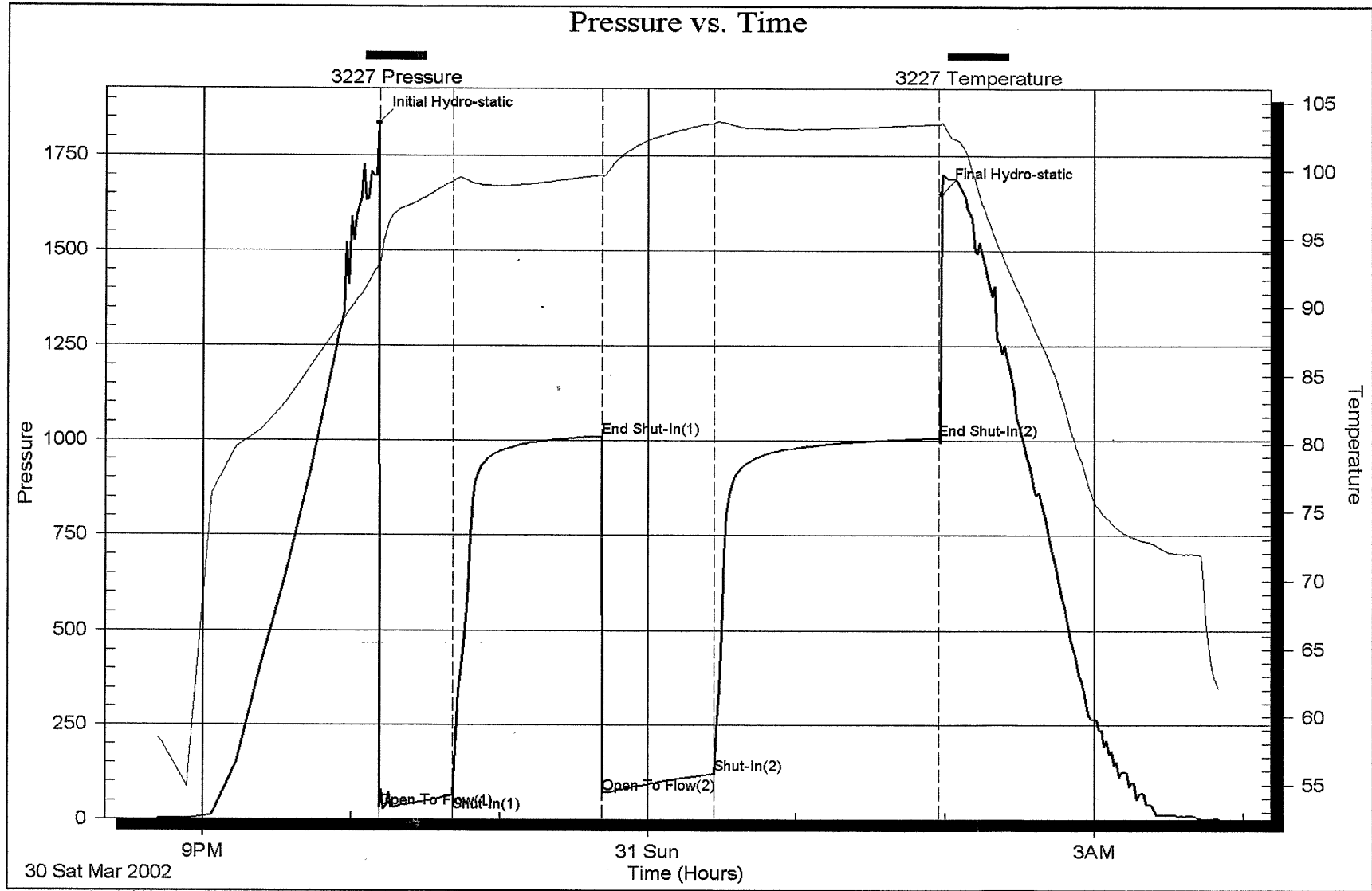
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW .372@54 degrees F



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