

ORIGINAL

RECEIVED

JUL 08 2010

Form ACO-1  
June 2009

Form Must Be Typed  
Form must be Signed  
All blanks must be Filled

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

KCC WICHITA

OPERATOR: License # 6509  
Name: Cla-Mar Oil Company  
Address 1: P.O. Box 1197  
Address 2: \_\_\_\_\_  
City: Hays State: KS Zip: 67601 + 1 1 9 7  
Contact Person: Jim Clark  
Phone: (785) 625-3863  
CONTRACTOR: License # 33905  
Name: Royal Drilling, Inc.  
Wellsite Geologist: Gary Fisher  
Purchaser: \_\_\_\_\_

Designate Type of Completion:  
 New Well     Re-Entry     Workover  
 Oil     WSW     SWD     SIOW  
 Gas     D&A     ENHR     SIGW  
 OG     GSW     Temp. Abd.  
 CM (Coal Bed Methane)  
 Cathodic     Other (Core, Expl., etc.): \_\_\_\_\_

If Workover/Re-entry: Old Well Info as follows:  
Operator: \_\_\_\_\_  
Well Name: \_\_\_\_\_  
Original Comp. Date: \_\_\_\_\_ Original Total Depth: \_\_\_\_\_  
 Deepening     Re-perf.     Conv. to ENHR     Conv. to SWD  
 Conv. to GSW  
 Plug Back: \_\_\_\_\_ Plug Back Total Depth \_\_\_\_\_  
 Commingled    Permit #: \_\_\_\_\_  
 Dual Completion    Permit #: \_\_\_\_\_  
 SWD    Permit #: \_\_\_\_\_  
 ENHR    Permit #: \_\_\_\_\_  
 GSW    Permit #: \_\_\_\_\_  
5/24/2010    5/30/10    5/31/2010  
Spud Date or    Date Reached TD    Completion Date or  
Recompletion Date       Recompletion Date

API No. 15 - 051-25987-00-00  
Spot Description: \_\_\_\_\_  
W/2 SE SW SE Sec. 16 Twp. 13 S. R. 20  East  West  
330 Feet from  North /  South Line of Section  
1,940 Feet from  East /  West Line of Section  
Footages Calculated from Nearest Outside Section Corner:  
 NE     NW     SE     SW  
County: Ellis  
Lease Name: Kinderknecht Well #: 1  
Field Name: Raynesford East  
Producing Formation: \_\_\_\_\_  
Elevation: Ground: 2156' Kelly Bushing: 2161'  
Total Depth: 3900' Plug Back Total Depth: \_\_\_\_\_  
Amount of Surface Pipe Set and Cemented at: 237 Feet  
Multiple Stage Cementing Collar Used?  Yes  No  
If yes, show depth set: \_\_\_\_\_ Feet  
If Alternate II completion, cement circulated from: \_\_\_\_\_  
feet depth to: \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt.

Drilling Fluid Management Plan  
(Data must be collected from the Reserve Pit)  
Chloride content: 87,000 ppm Fluid volume: 1,000 bbls  
Dewatering method used: Allow to dry and backfill  
Location of fluid disposal if hauled offsite: \_\_\_\_\_  
Operator Name: \_\_\_\_\_  
Lease Name: \_\_\_\_\_ License #: \_\_\_\_\_  
Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West  
County: \_\_\_\_\_ Permit #: \_\_\_\_\_

**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 of 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.

**AFFIDAVIT**  
I am the affiant and I hereby certify that 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: Owner Date: 7-7-2010

**KCC Office Use ONLY**  
 Letter of Confidentiality Received  
Date: \_\_\_\_\_  
 Confidential Release Date: \_\_\_\_\_  
 Wireline Log Received  
 Geologist Report Received  
 UIC Distribution  
ALT  I  II  III Approved by: Dlg Date: 7/9/10

Operator Name: Cla-Mär Oil Company Lease Name: Kinderknecht Well #: 1  
 Sec. 16 Twp. 13 S. R. 20  East  West County: Ellis

**INSTRUCTIONS:** Show important tops and base of formations penetrated. Detail all cores. Report all final copies of drill stems 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 test, along with final chart(s). Attach extra sheet if more space is needed. Attach complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Run <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Submitted Electronically <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>(If no, Submit Copy)</i>  List All E. Logs Run: <u>CNL/CDL</u> <u>MEL</u> <u>DIL</u>	<input checked="" type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Name</th> <th style="text-align: left;">Top</th> <th style="text-align: left;">Datum</th> </tr> </thead> <tbody> <tr> <td>Anh</td> <td>1498</td> <td>+ 669</td> </tr> <tr> <td>Top</td> <td>3184</td> <td>-1017</td> </tr> <tr> <td>Heeb</td> <td>3414</td> <td>-1247</td> </tr> <tr> <td>Lans</td> <td>3456</td> <td>-1289</td> </tr> <tr> <td>BKC</td> <td>3706</td> <td>-1539</td> </tr> <tr> <td>Arb</td> <td>3867</td> <td>-1700</td> </tr> </tbody> </table>	Name	Top	Datum	Anh	1498	+ 669	Top	3184	-1017	Heeb	3414	-1247	Lans	3456	-1289	BKC	3706	-1539	Arb	3867	-1700
Name	Top	Datum																				
Anh	1498	+ 669																				
Top	3184	-1017																				
Heeb	3414	-1247																				
Lans	3456	-1289																				
BKC	3706	-1539																				
Arb	3867	-1700																				

CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> 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"	20#	237'	60/40poz	150	3%cc 2%gel

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD: Size: _____ Set At: _____ Packer At: _____		Liner Run: <input type="checkbox"/> Yes <input type="checkbox"/> No	
Date of First, Resumed Production, SWD or ENHR. _____		Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain) _____	
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls. Gas-Oil Ratio Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: _____ _____
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# ALLIED CEMENTING CO., LLC. 041699

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

SERVICE POINT: RUSSELL

DATE	SEC. <u>13</u>	TWP. <u>16</u>	RANGE <u>20</u>	CALLED OUT	ON LOCATION	JOB START	JOB FINISH
LEASE	WELL # <u>1</u>	LOCATION <u>Ells 15 1/2E 22ND</u>				<u>11:00 AM</u>	<u>11:30 AM</u>
COUNTY		STATE				<u>Ells</u>	<u>KS</u>

OLD OR NEW (Circle one) NEW

CONTRACTOR Royal 711 OWNER \_\_\_\_\_

TYPE OF JOB Surface

HOLE SIZE 2 1/4 T.D. 387 CEMENT AMOUNT ORDERED 150 60/40 39/66

CASING SIZE 8 5/8 DEPTH 23 AMOUNT ORDERED 2 1/2 60/1

TUBING SIZE \_\_\_\_\_ DEPTH \_\_\_\_\_

DRILL PIPE \_\_\_\_\_ DEPTH \_\_\_\_\_

TOOD \_\_\_\_\_ DEPTH \_\_\_\_\_

PRES. MAX \_\_\_\_\_ MINIMUM \_\_\_\_\_

MEAS. LINE \_\_\_\_\_ SHOE JOINT \_\_\_\_\_

CEMENT LEFT IN CSG: 15

PERES \_\_\_\_\_

DISPLACEMENT 14 82

**EQUIPMENT**

PUMP TRUCK # 398 CEMENTER Cong HELPER Paul

BULK TRUCK # 328 DRIVER Jim

BULK TRUCK # \_\_\_\_\_ DRIVER \_\_\_\_\_

HANDLING MILEAGE \_\_\_\_\_

COMMON \_\_\_\_\_ @ \_\_\_\_\_

POZMIX \_\_\_\_\_ @ \_\_\_\_\_

GEL \_\_\_\_\_ @ \_\_\_\_\_

CHLORIDE \_\_\_\_\_ @ \_\_\_\_\_

ASC \_\_\_\_\_ @ \_\_\_\_\_

**REMARKS:**

8 5/8 casing on bottom 130' Circulator

8 5/8 water plug

Cement Circulator

TOTAL \_\_\_\_\_

DEPTH OF JOB \_\_\_\_\_

PUMP TRUCK CHARGE \_\_\_\_\_

EXTRA FOOTAGE @ \_\_\_\_\_

MILEAGE @ \_\_\_\_\_

MANIFOLD @ \_\_\_\_\_

CHARGE TO: Chg per 01

TOTAL \_\_\_\_\_

STREET \_\_\_\_\_ CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

**PLUG & FLOAT EQUIPMENT**

8 5/8 water plug @ \_\_\_\_\_

To Allied Cementing Co., LLC

# ALLIED CEMENTING CO., LLC. 041703

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

SERVICE POINT: Russell

DATE <u>5-31-10</u>	SEC. <u>16</u>	TWP. <u>13</u>	RANGE <u>20</u>	CALED OUT	ON LOCATION	JOB START <u>4:30am</u>	JOB FINISH <u>5:00am</u>
LEASE <u>Kindred</u>	WELL # <u>1</u>	LOCATION <u>EL 5 1.5 IE into</u>		COUNTY <u>EL 5</u>	STATE <u>KS</u>		
OLD OR <u>NEW</u> (Circle one)							

CONTRACTOR Roy

TYPE OF JOB Rotary Plug

HOLE SIZE 7 7/8 T.D. 3900

CASING SIZE \_\_\_\_\_ DEPTH \_\_\_\_\_

TUBING SIZE \_\_\_\_\_ DEPTH \_\_\_\_\_

DRILL PIPE 4 1/2 x 11 DEPTH 3800

TOOL \_\_\_\_\_ DEPTH \_\_\_\_\_

PRES. MAX \_\_\_\_\_ MINIMUM \_\_\_\_\_

MEAS. LINE \_\_\_\_\_ SHOE JOINT \_\_\_\_\_

CEMENT LEFT IN CSG \_\_\_\_\_

PERFS \_\_\_\_\_

DISPLACEMENT \_\_\_\_\_

OWNER \_\_\_\_\_

CEMENT AMOUNT ORDERED 245 6 1/2 4 1/2 6 1/2

COMMON @ \_\_\_\_\_

POZMIX @ \_\_\_\_\_

GEL @ \_\_\_\_\_

CHLORIDE @ \_\_\_\_\_

ASC @ \_\_\_\_\_

**EQUIPMENT**

PUMP TRUCK # 398 CEMENTER Craig HELPER Paul

BULK TRUCK # 410 DRIVER Heath

BULK TRUCK # \_\_\_\_\_ DRIVER \_\_\_\_\_

HANDLING @ \_\_\_\_\_

MILEAGE @ \_\_\_\_\_

TOTAL \_\_\_\_\_

**REMARKS:**

1st plug 3800 255K

2nd plug 1350 255K

250 100K

275 46K

45 105K

Rodale 325K

manchale 155K

SERVICE TOTAL \_\_\_\_\_

DEPTH OF JOB \_\_\_\_\_

PUMP TRUCK CHARGE @ \_\_\_\_\_

EXTRA FOOTAGE @ \_\_\_\_\_

MILEAGE @ \_\_\_\_\_

MANIFOLD @ \_\_\_\_\_

TOTAL \_\_\_\_\_

CHARGE TO: Cl. mar

STREET \_\_\_\_\_

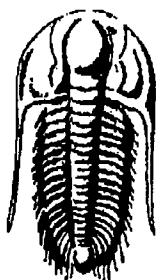
CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

**PLUG & FLOAT EQUIPMENT**

3 3/8 Warden Plug @ \_\_\_\_\_

To Allied Cementing Co., LLC.

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JUL 08 2010  
KCC WICHITA



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **Cla-Mar Oil Co.**

PO Box 1197  
Hays, KS 67601

ATTN: Roger Fisher

**16-13s-20w Ellis KS**

**Kinderknecht #1**

Start Date: 2010.05.28 @ 17:42:45

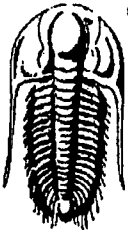
End Date: 2010.05.28 @ 22:06:39

Job Ticket #: 38467                      DST #: 1

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Cla-Mar Oil Co.

**Kinderknecht #1**

PO Box 1197  
Hays, KS 67601

**16-13s-20w Ellis KS**

Job Ticket: 38467

**DST#: 1**

ATTN: Roger Fisher

Test Start: 2010.05.28 @ 17:42:45

## GENERAL INFORMATION:

Formation: **LKC"C-D"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:03:10

Time Test Ended: 22:06:39

Test Type: Conventional Bottom Hole

Tester: Brian Fairbank

Unit No: 41

Interval: **3468.00 ft (KB) To 3510.00 ft (KB) (TVD)**

Reference Elevations: 2171.00 ft (KB)

Total Depth: 3510.00 ft (KB) (TVD)

2166.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition:

KB to GR/CF: 5.00 ft

**Serial #: 8647**

Inside

Press@RunDepth: 387.68 psig @ 3471.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2010.05.28

End Date: 2010.05.28

Last Calib.: 2010.05.28

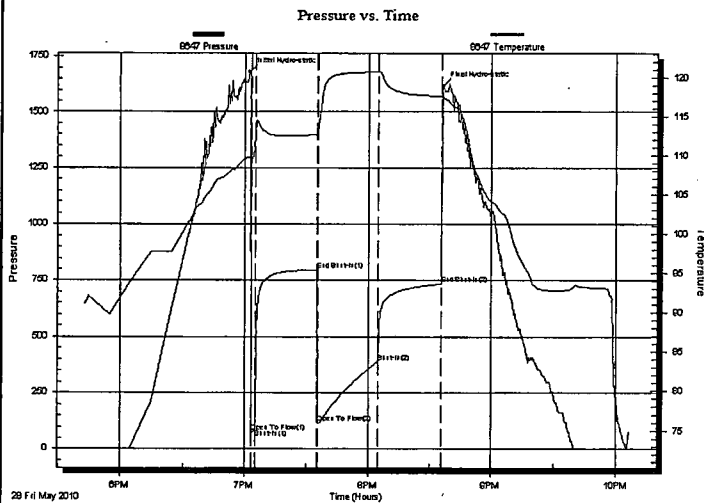
Start Time: 17:42:45

End Time: 22:06:39

Time On Btmr: 2010.05.28 @ 19:02:10

Time Off Btmr: 2010.05.28 @ 20:36:40

TEST COMMENT: IFP - BOB 2 min.  
ISI - no blow back  
FFP - BOB 2 min.  
FSI - no blow back



## PRESSURE SUMMARY

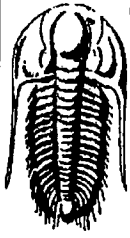
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1681.05	109.80	Initial Hydro-static
1	74.80	109.40	Open To Flow (1)
3	88.53	112.62	Shut-In(1)
33	797.96	112.62	End Shut-In(1)
34	117.79	112.47	Open To Flow (2)
63	387.68	120.69	Shut-In(2)
94	734.59	117.56	End Shut-In(2)
95	1619.02	117.40	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
10.00	MUD 100%	0.14
795.00	MMV 90%W, 10%M	11.15
35.00	O sptd MUD M 100%	0.49

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Cla-Mar Oil Co.

**Kinderknecht #1**

PO Box 1197  
Hays, KS 67601

**16-13s-20w Ellis KS**

Job Ticket: 38467

**DST#: 1**

ATTN: Roger Fisher

Test Start: 2010.05.28 @ 17:42:45

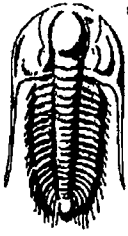
### Tool Information

Drill Pipe:	Length: 3467.00 ft	Diameter: 3.80 inches	Volume: 48.63 bbl	Tool Weight: 2500.00 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: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 45000.00 lb
			<u>Total Volume: 48.63 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	19.00 ft			String Weight: Initial 40000.00 lb
Depth to Top Packer:	3468.00 ft			Final 43000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	42.00 ft			
Tool Length:	62.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

### Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3453.00	
Hydraulic tool	5.00			3458.00	
Packer	5.00			3463.00	20.00 Bottom Of Top Packer
Packer	5.00			3468.00	
Stubb	1.00			3469.00	
Perforations	1.00			3470.00	
Change Over Sub	1.00			3471.00	
Recorder	0.00	8647	Inside	3471.00	
Recorder	0.00	8371	Outside	3471.00	
Blank Spacing	32.00			3503.00	
Change Over Sub	1.00			3504.00	
Perforations	3.00			3507.00	
Bullnose	3.00			3510.00	42.00 Bottom Packers & Anchor

**Total Tool Length: 62.00**



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Cla-Mar Oil Co.

**Kinderknecht #1**

PO Box 1197  
Hays, KS 67601

**16-13s-20w Ellis KS**

Job Ticket: 38467

**DST#: 1**

ATTN: Roger Fisher

Test Start: 2010.05.28 @ 17:42:45

**Mud and Cushion Information**

Mud Type: Gel Chem  
Mud Weight: 9.00 lb/gal  
Viscosity: 60.00 sec/qt  
Water Loss: 8.75 in<sup>3</sup>  
Resistivity: ohm.m  
Salinity: 5000.00 ppm  
Filter Cake: inches

Cushion Type:  
Cushion Length: ft  
Cushion Volume: bbl  
Gas Cushion Type:  
Gas Cushion Pressure: psig

Oil API: deg API  
Water Salinity: 34000 ppm

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
10.00	MUD 100%	0.140
795.00	MW 90%W, 10%M	11.152
35.00	O sptd MUD M 100%	0.491

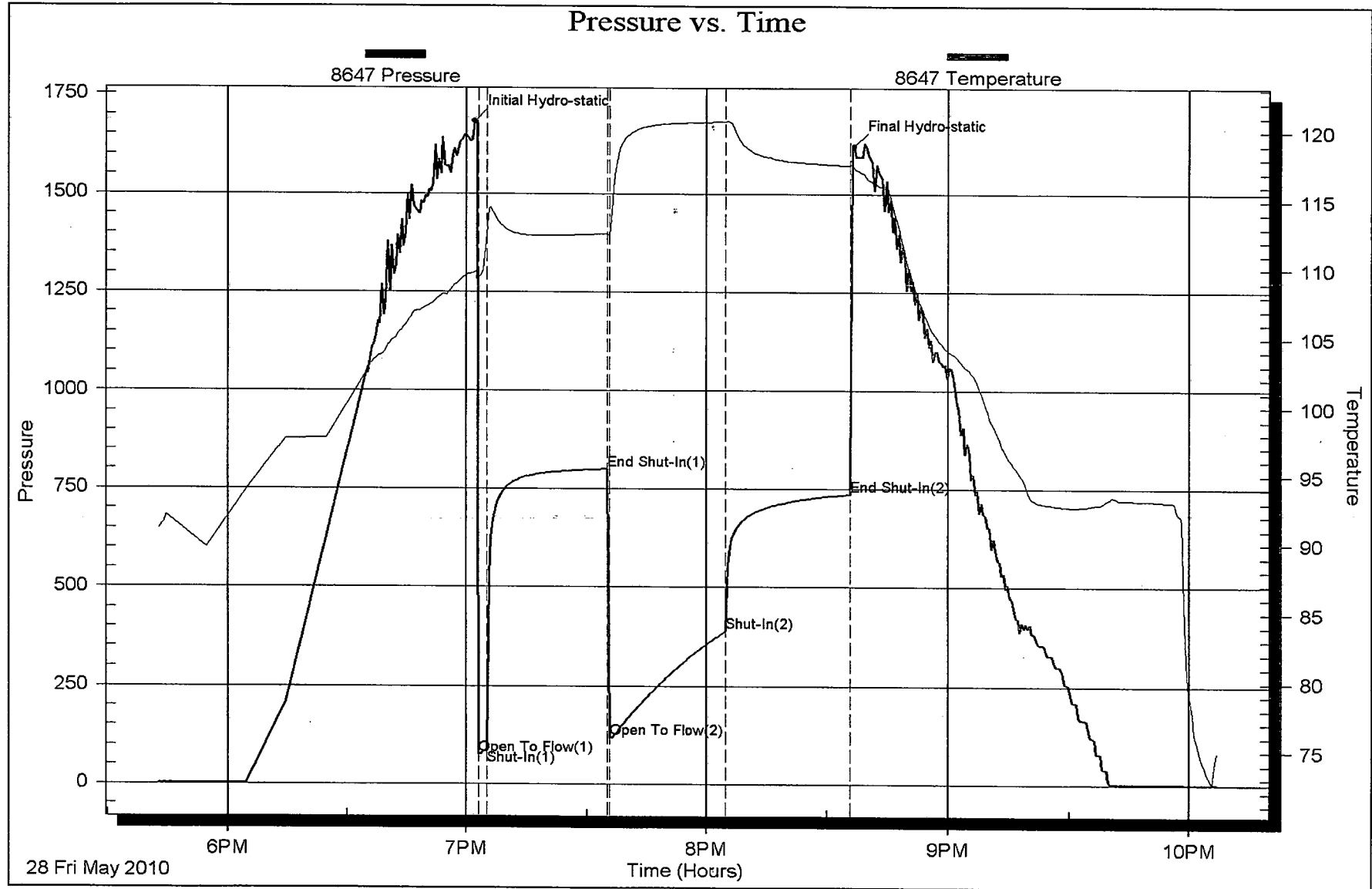
Total Length: 840.00 ft      Total Volume: 11.783 bbl

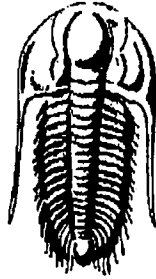
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:

Laboratory Name:      Laboratory Location:

Recovery Comments: RW .206 @ 76F = 34000 chlorides







**TRILOBITE**  
**TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **Cla-Mar Oil Co.**

PO Box 1197  
Hays, KS 67601

ATTN: Roger Fisher

**16-13s-20w Ellis KS**

**Kinderknecht #1**

Start Date: 2010.05.29 @ 13:34:05

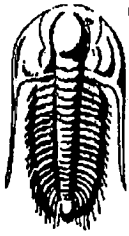
End Date: 2010.05.29 @ 19:08:29

Job Ticket #: 38468                      DST #: 2

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Cla-Mar Oil Co.

**Kinderknecht #1**

PO Box 1197  
Hays, KS 67601

**16-13s-20w Ellis KS**

Job Ticket: 38468

**DST#: 2**

ATTN: Roger Fisher

Test Start: 2010.05.29 @ 13:34:05

## GENERAL INFORMATION:

Formation: **LKC H-K**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:18:00

Time Test Ended: 19:08:29

Test Type: Conventional Bottom Hole

Tester: Brian Fairbank

Unit No: 41

Interval: **3556.00 ft (KB) To 3658.00 ft (KB) (TVD)**

Reference Elevations: 2171.00 ft (KB)

Total Depth: 3658.00 ft (KB) (TVD)

2166.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

**Serial #: 8371**

**Outside**

Press@RunDepth: 75.75 psig @ 3562.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2010.05.29

End Date: 2010.05.29

Last Calib.: 2010.05.29

Start Time: 13:34:05

End Time: 19:08:29

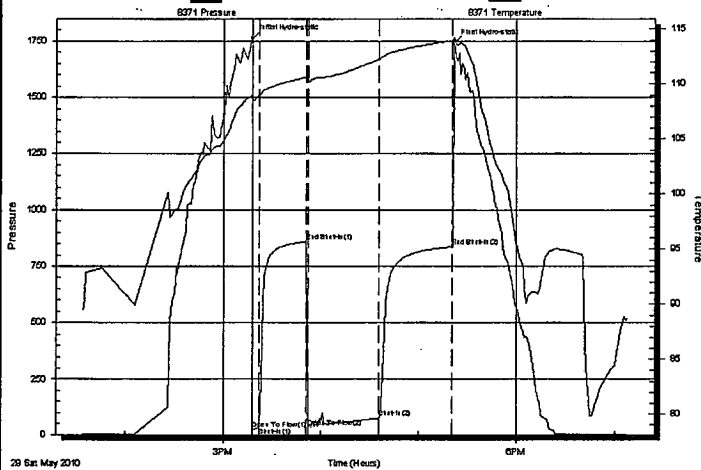
Time On Btm: 2010.05.29 @ 15:17:30

Time Off Btm: 2010.05.29 @ 17:21:30

## TEST COMMENT:

IFP: 2" 3 min  
ISI: no blow back  
FFP: BOB in 32 min  
FSI: no blow back

Pressure vs. Time



## PRESSURE SUMMARY

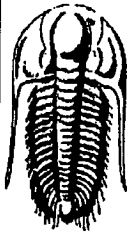
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1763.80	108.98	Initial Hydro-static
1	24.27	108.42	Open To Flow (1)
5	33.88	108.97	Shut-In(1)
34	860.44	110.59	End Shut-In(1)
35	35.54	110.21	Open To Flow (2)
78	75.75	112.21	Shut-In(2)
123	836.90	113.92	End Shut-In(2)
124	1740.31	114.25	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
60.00	SO&WCM 10%o 20%w 70%m	0.84
60.00	O&WCM 20%o 30%w 50%m	0.84
0.00	GIP-60ft	0.00

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

Cl-Mar Oil Co.

**Kinderknecht #1**

PO Box 1197  
Hays, KS 67601

**16-13s-20w Ellis KS**

Job Ticket: 38468

**DST#: 2**

ATTN: Roger Fisher

Test Start: 2010.05.29 @ 13:34:05

**Tool Information**

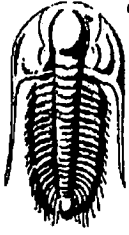
Drill Pipe:	Length: 3556.00 ft	Diameter: 3.80 inches	Volume: 49.88 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 50000.00 lb
			<b>Total Volume: 49.88 bbl</b>	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 42000.00 lb
Depth to Top Packer:	3556.00 ft			Final 43000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	102.00 ft			
Tool Length:	122.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

**Tool Description**

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3541.00	
Hydraulic tool	5.00			3546.00	
Packer	5.00			3551.00	20.00 Bottom Of Top Packer
Packer	5.00			3556.00	
Stubb	1.00			3557.00	
Perforations	4.00			3561.00	
Change Over Sub	1.00			3562.00	
Recorder	0.00	8647	Inside	3562.00	
Recorder	0.00	8371	Outside	3562.00	
Drill Pipe	92.00			3654.00	
Change Over Sub	1.00			3655.00	
Bullnose	3.00			3658.00	102.00 Bottom Packers & Anchor

**Total Tool Length: 122.00**



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Cla-Mar Oil Co.

**Kinderknecht #1**

PO Box 1197  
Hays, KS 67601

**16-13s-20w Ellis KS**

Job Ticket: 38468

**DST#: 2**

ATTN: Roger Fisher

Test Start: 2010.05.29 @ 13:34:05

**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: 58.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.58 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 7000.00 ppm

Filter Cake: inches

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
60.00	SO&WCM 10%o 20%w 70%m	0.842
60.00	O&WCM 20%o 30%w 50%m	0.842
0.00	GIP-60ft	0.000

Total Length: 120.00 ft

Total Volume: 1.684 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

