

KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION

ORIGINAL

Form ACO-1  
October 2008  
Form Must Be Typed

WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE

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~~ 623-1700  
CONTRACTOR: License # 33905  
Name: Royal Drilling, Inc.  
Wellsite Geologist: Randy Kilian  
Purchaser: \_\_\_\_\_  
Designate Type of Completion:  
 New Well  Re-Entry  Workover  
 Oil  SWD  SIOW  
 Gas  ENHR  SIGW  
 CM (Coal Bed Methane)  Temp. Abd.  
 Dry  Other \_\_\_\_\_  
(Core, WSW, Expl., Cathodic, 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  
 Plug Back: \_\_\_\_\_ Plug Back Total Depth \_\_\_\_\_  
 Commingled Docket No.: \_\_\_\_\_  
 Dual Completion Docket No.: \_\_\_\_\_  
 Other (SWD or Enhr.?) Docket No.: \_\_\_\_\_  
9/19/2009 9/25/2009 10/09/09  
Spud Date or Date Reached TD (Completion Date or Recompletion Date)

API No. 15 - 051-25902-00-00  
Spot Description: \_\_\_\_\_  
S2 NW NW NE Sec. 20 Twp. 13 S. R. 20  East  West  
430 Feet from  North /  South Line of Section  
2310 Feet from  East /  West Line of Section  
Footages Calculated from Nearest Outside Section Corner:  
 NE  NW  SE  SW  
County: Ellis  
Lease Name: Lang Well #: 1  
Field Name: N/A  
Producing Formation: \_\_\_\_\_  
Elevation: Ground: 2195' Kelly Bushing: 2200'  
Total Depth: 3910' Plug Back Total Depth: \_\_\_\_\_  
Amount of Surface Pipe Set and Cemented at: 214 Feet  
Multiple Stage Cementing Collar Used?  Yes  No  
If yes, show depth set: \_\_\_\_\_ Feet  
If Alternate II completion, cement circulated from: 1531'  
feet depth to: surface w/ 170 sx cmt.

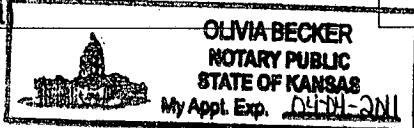
Drilling Fluid Management Plan AH II NUR 1-22-10  
(Data must be collected from the Reserve Pit)  
Chloride content: 47000 ppm Fluid volume: 400 bbls  
Dewatering method used: Allow to dry and backfill  
Location of fluid disposal if hauled offsite: \_\_\_\_\_  
Operator Name: \_\_\_\_\_  
Lease Name: \_\_\_\_\_ License No.: \_\_\_\_\_  
Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West  
County: \_\_\_\_\_ Docket No.: \_\_\_\_\_

*For file w/oper on all 370*

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.

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: 01/04/2010  
Subscribed and sworn to before me this 4th day of January, 20 10.  
Notary Public: Olivia Becker  
Date Commission Expires: 04-04-2011



**KCC Office Use ONLY**

Letter of Confidentiality Received  
 If Denied, Yes  Date: \_\_\_\_\_  
 Wireline Log Received  
 Geologist Report Received  
 UIC Distribution

**RECEIVED**  
**JAN 11 2010**

KCC WICHITA

Operator Name: Cla-Mar Oil Company Lease Name: Lang Well #: 1  
 Sec. 20 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 copy of all Electric Wireline Logs surveyed. Attach final geological well site report.

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) **Dual Compersated Porosity**  
**Dual Induction**  
 List All E. Logs Run: **Microresistivity**

<input checked="" type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Name	Top	Datum
Anh	1537	+663
Topeka	3227	-1012
Heeb	3459	-1259
Toronto	3475	-1275
Lansing	3496	-1296
BKC	3735	-1535
Arb	3906	-1706

CASING RECORD <input type="checkbox"/> New <input checked="" 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#	214'	60/40	150	3%cc 2%gel
Production	7 7/8"	5 1/2"	14#	3910'	common	180	10% salt

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input checked="" type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone	1531'	lightweight	170	

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
4	3848' - 3854' & 3843' - 3846'	200 gal 15% INS	

TUBING RECORD:		Size:	Set At:	Packer At:	Liner Run:
		2 3/8"	3860'		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumed Production, SWD or Enhr.		Producing Method:			
1/01/10		<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 Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	20		trace		

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

*Per telegram  
w/oper.  
8/11/310.  
KCC  
M*

# ALLIED CEMENTING CO., LLC. 33608

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

SERVICE POINT:

Russell KS

DATE <u>10-8-09</u>	SEC. <u>20</u>	TWP. <u>13</u>	RANGE <u>20</u>	CALLED OUT	ON LOCATION	JOB START <u>12:00pm</u>	JOB FINISH <u>12:45pm</u>
LEASE <u>Lana</u>	WELL# <u>1</u>	LOCATION <u>Ellis KS 2 South 1/2 East</u>			COUNTY <u>Ellis</u>	STATE <u>KS</u>	
OLD OR <u>NEW</u> (Circle one)							

CONTRACTOR Karst Well Service  
 TYPE OF JOB Port Collar  
 HOLE SIZE \_\_\_\_\_ T.D. \_\_\_\_\_  
 CASING SIZE 5 1/2 DEPTH BP@ 3222  
 TUBING SIZE 2 3/8 DEPTH 1531'  
 DRILL PIPE \_\_\_\_\_ DEPTH \_\_\_\_\_  
 TOOL Port Collar DEPTH 1531'  
 PRES. MAX \_\_\_\_\_ MINIMUM \_\_\_\_\_  
 MEAS. LINE \_\_\_\_\_ SHOE JOINT \_\_\_\_\_  
 CEMENT LEFT IN CSG. \_\_\_\_\_  
 PERFS. \_\_\_\_\_  
 DISPLACEMENT 4 1/2 Bbl  
 EQUIPMENT \_\_\_\_\_  
 PUMP TRUCK CEMENTER John Roberts  
 # 398 HELPER Glenn  
 BULK TRUCK \_\_\_\_\_  
 # 481 DRIVER Wayen  
 BULK TRUCK \_\_\_\_\_  
 # \_\_\_\_\_ DRIVER \_\_\_\_\_

OWNER \_\_\_\_\_  
 CEMENT (Used 170sk cement)  
 AMOUNT ORDERED 400sk Lite 1/4" #10  
 \_\_\_\_\_  
 \_\_\_\_\_  
 COMMON \_\_\_\_\_ @ \_\_\_\_\_  
 POZMIX \_\_\_\_\_ @ \_\_\_\_\_  
 GEL \_\_\_\_\_ @ \_\_\_\_\_  
 CHLORIDE \_\_\_\_\_ @ \_\_\_\_\_  
 ASC \_\_\_\_\_ @ \_\_\_\_\_  
Lite 170 @ 11.85 2014.50  
 \_\_\_\_\_ @ \_\_\_\_\_  
 \_\_\_\_\_ @ \_\_\_\_\_  
 \_\_\_\_\_ @ \_\_\_\_\_  
 \_\_\_\_\_ @ \_\_\_\_\_  
 HANDLING 170 @ 2.25 382.50  
 MILEAGE 101sk/hr 510.00  
 TOTAL 2907.00

REMARKS:

Test port collar to 1000 psi. Open port collar Est. circulation MIX 170 sk Cement. Displace 4 1/2 Bbl H2O. Close port collar test to 1000 psi. Run 6 sts tubing wash hole clean. Come out of hole.  
Thank You!

SERVICE

DEPTH OF JOB \_\_\_\_\_  
 PUMP TRUCK CHARGE \_\_\_\_\_ 991.00  
 EXTRA FOOTAGE \_\_\_\_\_ @ \_\_\_\_\_  
 MILEAGE 30 @ 7.00 210.00  
 MANIFOLD \_\_\_\_\_ @ \_\_\_\_\_  
 \_\_\_\_\_ @ \_\_\_\_\_  
 TOTAL 1201.00

CHARGE TO: Cla-Mar  
 STREET \_\_\_\_\_  
 CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

PLUG & FLOAT EQUIPMENT

\_\_\_\_\_ @ \_\_\_\_\_  
 \_\_\_\_\_ @ \_\_\_\_\_  
 \_\_\_\_\_ @ \_\_\_\_\_  
 \_\_\_\_\_ @ \_\_\_\_\_  
 \_\_\_\_\_ @ \_\_\_\_\_  
 TOTAL \_\_\_\_\_

To Allied Cementing Co., LLC.  
 You are hereby requested to rent cementing equipment and furnish cementer and helper(s) 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 and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

SALES TAX (If Any) \_\_\_\_\_  
 TOTAL CHARGES 1201.00  
 DISCOUNT \_\_\_\_\_ IF PAID IN 30 DAYS

PRINTED NAME \_\_\_\_\_  
 SIGNATURE Terry A. Piaschos

RECEIVED  
 JAN 11 2010  
 KCC WICHITA

# ALLIED CEMENTING CO., INC. 24082

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

SERVICE POINT: Russell Ks  
Oakley Ks

DATE <u>9/18/09</u>	SEC. <u>20</u>	TWP. <u>13</u>	RANGE <u>20</u>	CALLED OUT	ON LOCATION	JOB START <u>2:00 pm</u>	JOB FINISH <u>2:30 pm</u>
LEASE <u>Lang</u>	WELL # <u>1</u>	LOCATION <u>Ellis 5 To Fairgrounds Rd</u>			COUNTY <u>Ellis</u>	STATE <u>Ks</u>	
OLD OR NEW (Circle one)		<u>1/2 W SIDE</u>					

CONTRACTOR Royal #1  
 TYPE OF JOB Oil Well  
 HOLE SIZE 12 1/4 T.D. 214  
 CASING SIZE 8 5/8 20" DEPTH 214  
 TUBING SIZE DEPTH  
 DRILL PIPE DEPTH  
 TOOL DEPTH  
 PRES. MAX MINIMUM  
 MEAS. LINE SHOE JOINT  
 CEMENT LEFT IN CSG. 15  
 PERFS.  
 DISPLACEMENT 12.67 CBL

OWNER Same  
 CEMENT  
 AMOUNT ORDERED 150 5/11 60/40 200cc  
200 gal

COMMON	<u>90</u>	@	<u>13.50</u>	<u>1215.00</u>
POZMIX	<u>60</u>	@	<u>7.50</u>	<u>453.00</u>
GEL	<u>3</u>	@	<u>20.00</u>	<u>60.00</u>
CHLORIDE	<u>5</u>	@	<u>51.50</u>	<u>257.50</u>
ASC		@		
		@		
		@		
		@		
		@		
		@		
		@		
		@		
		@		
HANDLING	<u>158</u>	@	<u>2.25</u>	<u>355.50</u>
MILEAGE	<u>100 5/16 mile</u>			<u>174.00</u>
TOTAL				<u>2815.50</u>

**EQUIPMENT**

PUMP TRUCK CEMENTER John Robert  
 # 417 HELPER Matt  
 BULK TRUCK  
 # 396 DRIVER Darren  
 BULK TRUCK  
 # DRIVER

**REMARKS:**

Cement did circulate

T. Howard Co  
Plan, Wayne

**SERVICE**

DEPTH OF JOB			
PUMP TRUCK CHARGE			<u>991.00</u>
EXTRA FOOTAGE		@	
MILEAGE	<u>30</u>	@	<u>3.00</u> <u>210.00</u>
MANIFOLD		@	
		@	
		@	

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JAN 11 2010

TOTAL 1201.00

PLUG & FLOAT EQUIPMENT  
KCC WICHITA

# ALLIED CEMENTING CO., LLC. 037640

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

SERVICE POINT:  
KANSAS

DATE <u>9-25-09</u>	SEC <u>20</u>	TWP <u>13</u>	RANGE <u>20</u>	CALLED OUT	ON LOCATION	JOB START	JOB FINISH
LEASE <u>AVG</u>	WELL # <u>1</u>	LOCATION <u>Ellis 2s 1/2 W S 10</u>		COUNTY <u>Ellis</u>	STATE <u>KS</u>		
OLD OR NEW (Circle one)							

CONTRACTOR Royal #1

TYPE OF JOB Production String

HOLE SIZE 7 7/8 T.D. 3910

CASING SIZES 5 1/2 14# DEPTH 3924.48

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL Collar #57 DEPTH 1531

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT 1.85

CEMENT LEFT IN CSG 21.85

PERFS

DISPLACEMENT 9.5 1/4 BL

OWNER

CEMENT

AMOUNT ORDERED 1800m 10% Salt  
560 gal WFLZ

COMMON @

POZMIX @

GEL @

CHLORIDE @

ASC @

HANDLING @

MILEAGE @

### EQUIPMENT

PUMP TRUCK CEMENTER Rag

# 398 HELPER Matt

BULK TRUCK DRIVER Glenn

# 410

BULK TRUCK DRIVER

### REMARKS:

Total Pipe 3924.48

Insert Set @ 39026.3

Rathole 30SK

Mousehole 15SK

Start Flush

Start Cement

2 Splice Plug + Plug landed 1500ps

Release Set Only

*Thanks.*

CHARGE TO Clamar 0:1

STREET

CITY STATE ZIP

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JAN 11 2010

KCC WICHITA

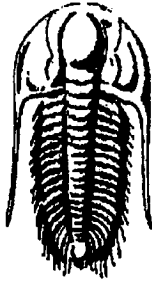
PLUG & FLOAT EQUIPMENT

1 5/2 Gairshoe

1 AFO TASH

5 Central SKS

1 Basket



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

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

PO Box 1197  
Hays KS 67601

ATTN: Randy Kilian

**20 13S 20W Ellis KS**

**Lang #1**

Start Date: 2009.09.24 @ 00:00:16

End Date: 2009.09.24 @ 08:22:01

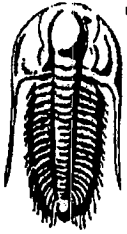
Job Ticket #: 34047      DST #: 1

RECEIVED

JAN 11 2010

KCC WICHITA

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.

**Lang #1**

PO Box 1197  
Hays KS 67601

**20 13S 20W Ellis KS**

Job Ticket: 34047

**DST#: 1**

ATTN: Randy Kilian

Test Start: 2009.09.24 @ 00:00:16

**GENERAL INFORMATION:**

Formation: **Arbuckle**  
 Deviated: **No Whipstock:** ft (KB)  
 Time Tool Opened: 02:53:26  
 Time Test Ended: 08:22:01

Test Type: **Conventional Bottom Hole**  
 Tester: **Mike Slemp**  
 Unit No: **28**

Interval: **3824.00 ft (KB) To 3853.00 ft (KB) (TVD)**  
 Total Depth: **3853.00 ft (KB) (TVD)**  
 Hole Diameter: **7.78 inches** Hole Condition: **Fair**

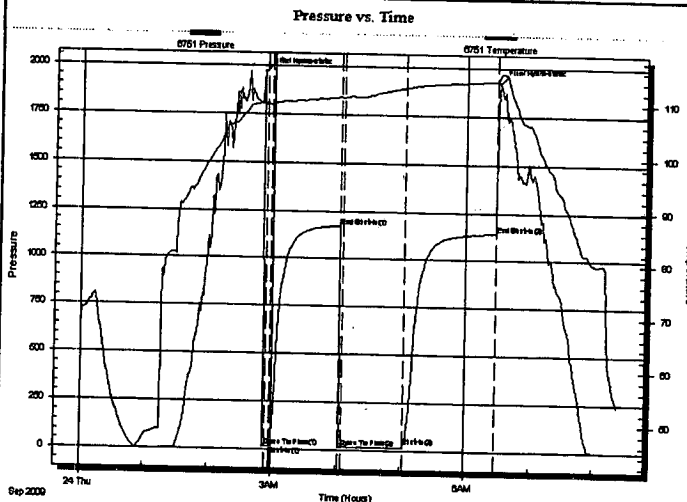
Reference Elevations: **2200.00 ft (KB)**  
**2195.00 ft (CF)**  
 KB to GR/CF: **5.00 ft**

**Serial #: 6751**

Press@RunDepth: **27.91 psig @** ft (KB)  
 Start Date: **2009.09.24** End Date: **2009.09.24**  
 Start Time: **00:00:17** End Time: **08:22:01**

Capacity: **7000.00 psig**  
 Last Calib.: **2009.09.24**  
 Time On Btm: **2009.09.24 @ 02:51:26**  
 Time Off Btm: **2009.09.24 @ 06:30:46**

**TEST COMMENT:** IF- Weak surface blow, 1/2 inch in 5 min  
 IS- No blow back  
 FF- Weak surface blow, 1/2 inch in 60 min  
 No blow back



**PRESSURE SUMMARY**

Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
0	1963.83	110.08	Initial Hydro-static
2	14.75	109.76	Open To Flow (1)
7	15.41	109.63	Shut-In (1)
71	1172.11	111.08	End Shut-In (1)
73	15.01	111.02	Open To Flow (2)
132	27.91	112.86	Shut-In (2)
217	1140.89	114.33	End Shut-In (2)
220	1920.10	115.36	Final Hydro-static

**Recovery**

Length (ft)	Description	Volume (bbl)
5.00	MCO80%oil20%mud	0.07
10.00	OOC95%mud5%oil	0.14

**Gas Rates**

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Cla-Mar Oil Co.

**Lang #1**

PO Box 1197  
Hays KS 67601

**20 13S 20W Ellis KS**

Job Ticket: 34047

**DST#: 1**

ATTN: Randy Kilian

Test Start: 2009.09.24 @ 00:00:16

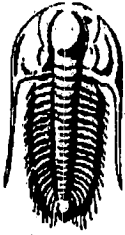
**Tool Information**

Drill Pipe:	Length: 3810.00 ft	Diameter: 3.80 inches	Volume: 53.44 bbl	Tool Weight: 2000.00 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: 38000.00 lb
			<b>Total Volume: 53.44 bbl</b>	Tool Chased 0.00 ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial 35000.00 lb
Depth to Top Packer:	3824.00 ft			Final 36000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	29.00 ft			
Tool Length:	49.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3805.00	
Shut In Tool	5.00			3810.00	
Hydraulic tool	5.00			3815.00	
Packer	5.00		Fluid	3820.00	20.00 Bottom Of Top Packer
Packer	4.00			3824.00	
Stubb	1.00			3825.00	
Perforations	1.00			3826.00	
Recorder	0.00	6752	inside	3826.00	
Recorder	0.00	8321	inside	3826.00	
Perforations	24.00			3850.00	
Bullnose	3.00			3853.00	29.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>49.00</b>				





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Ca-Mar Oil Co.

**Lang #1**

PO Box 1197  
Hays KS 67601

**20 13S 20W Ellis KS**

Job Ticket: 34047

**DST#: 1**

ATTN: Randy Kilian

Test Start: 2009.09.24 @ 00:00:16

## Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 46.00 sec/qt

Water Loss: 9.15 in<sup>3</sup>

Resistivity: ohm.m

Salinity: 4000.00 ppm

Filter Cake: inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbf

psig

Oil API:

Water Salinity:

deg API

ppm

## Recovery Information

Recovery Table

Length ft	Description	Volume bbf
5.00	MCO80%oil20%mud	0.070
10.00	OCM95%mud5%oil	0.140

Total Length: 15.00 ft

Total Volume: 0.210 bbf

Num Fluid Samples: 0

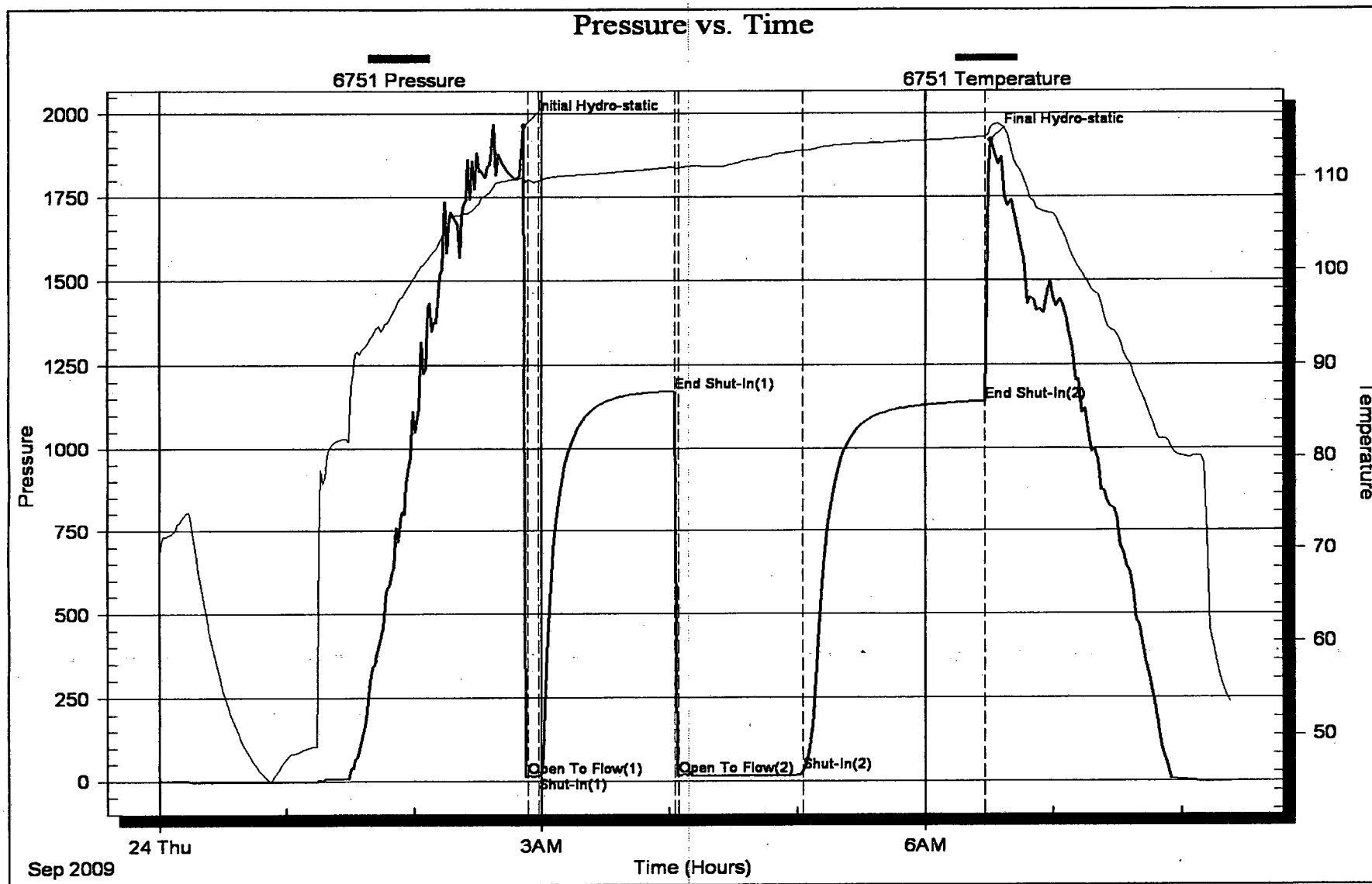
Num Gas Bombs: 0

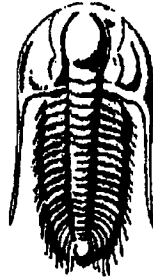
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





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

## DRILL STEM TEST REPORT

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

PO Box 1197  
Hays KS 67601

ATTN: Randy Kilian

**20 13S 20W Ellis KS**

**Lang #1**

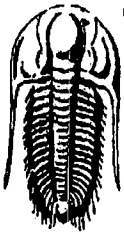
Start Date: 2009.09.24 @ 15:25:33

End Date: 2009.09.24 @ 22:43:18

Job Ticket #: 34048                      DST #: 2

Trilobite Testing, Inc  
PO Box 1733 Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

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JAN 11 2010  
KCC WICHITA



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Ca-Mar Oil Co.

Lang #1

PO Box 1197  
Hays KS 67601

20 13S 20W E111s KS

Job Ticket: 34048

DST#: 2

ATTN: Randy Kilian

Test Start: 2009.09.24 @ 15:25:33

## GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: **No Whipstock** ft (KB)

Time Tool Opened: 17:21:53

Time Test Ended: 22:43:18

Test Type: **Conventional Bottom Hole**

Tester: **Mike Slemp**

Unit No: **28**

Interval: **3853.00 ft (KB) To 3858.00 ft (KB) (TVD)**

Total Depth: **3858.00 ft (KB) (TVD)**

Hole Diameter: **7.78 inches** Hole Condition: **Fair**

Reference Elevations: **2200.00 ft (KB)**

**2195.00 ft (CF)**

KB to GR/CF: **5.00 ft**

## Serial #: 6751

Press@RunDepth: **82.06 psig @** ft (KB)

Start Date: **2009.09.24**

End Date:

**2009.09.24**

Start Time: **15:25:34**

End Time:

**22:43:18**

Capacity: **7000.00 psig**

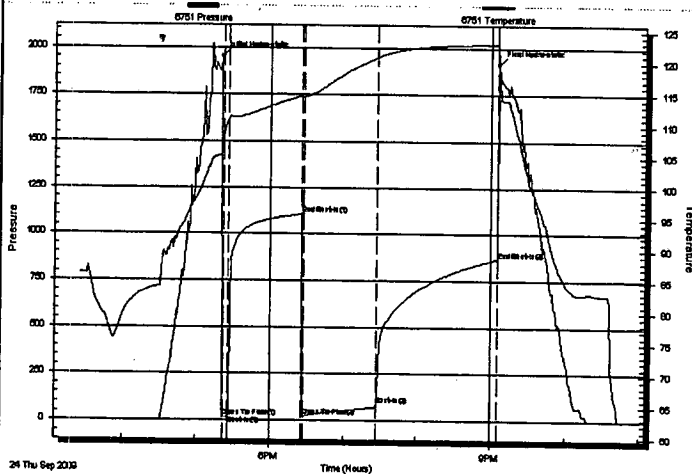
Last Calib.: **2009.09.24**

Time On Btm: **2009.09.24 @ 17:20:33**

Time Off Btm: **2009.09.24 @ 21:06:03**

**TEST COMMENT:** IF-Strong building blow, 8 inches in 5 min  
IS- No blow back  
FF-Strong blow, BOB in 10 min  
FSI- No blow back

Pressure vs. Time



## PRESSURE SUMMARY

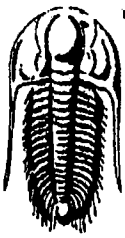
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1953.79	106.14	Initial Hydro-static
2	18.02	108.04	Open To Flow (1)
6	20.19	110.97	Shut-In (1)
65	1106.80	114.73	End Shut-In (1)
67	22.92	114.56	Open To Flow (2)
127	82.06	120.72	Shut-In (2)
225	867.96	122.92	End Shut-In (2)
226	1914.06	119.95	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
120.00	100%oil	1.68
10.00	mco50%mud50%oil	0.14

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Cla-Mar Oil Co.

**Lang #1**

PO Box 1197  
Hays KS 67601

**20 13S 20W Ellis KS**

Job Ticket: 34048

**DST#: 2**

ATTN: Randy Kilian

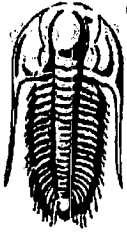
Test Start: 2009.09.24 @ 15:25:33

**Tool Information**

Drill Pipe:	Length: 3839.00 ft	Diameter: 3.80 inches	Volume: 53.85 bbl	Tool Weight: 2000.00 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: 40000.00 lb
			<u>Total Volume: 53.85 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial 38000.00 lb
Depth to Top Packer:	3853.00 ft			Final 40000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	5.00 ft			
Tool Length:	25.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3834.00	
Shut In Tool	5.00			3839.00	
Hydraulic tool	5.00			3844.00	
Packer	5.00		Fluid	3849.00	20.00 Bottom Of Top Packer
Packer	4.00			3853.00	
Stubb	1.00			3854.00	
Perforations	1.00			3855.00	
Recorder	0.00	6752	Inside	3855.00	
Recorder	0.00	8321	Inside	3855.00	
Bullnose	3.00			3858.00	5.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>25.00</b>				



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Ca-Mar Oil Co.

Lang #1

PO Box 1197  
Hays KS 67601

20 13S 20W Ellis KS

Job Ticket: 34048

DST#: 2

ATTN: Randy Kilian

Test Start: 2009.09.24 @ 15:25:33

## Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 47.00 sec/qt

Water Loss: 8.98 in<sup>3</sup>

Resistivity: ohm.m

Salinity: 4000.00 ppm

Filter Cake: inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

35 deg API

Water Salinity:

ppm

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	100%oil	1.683
10.00	mco50%mud50%oil	0.140

Total Length: 130.00 ft

Total Volume: 1.823 bbl

Num Fluid Samples: 0

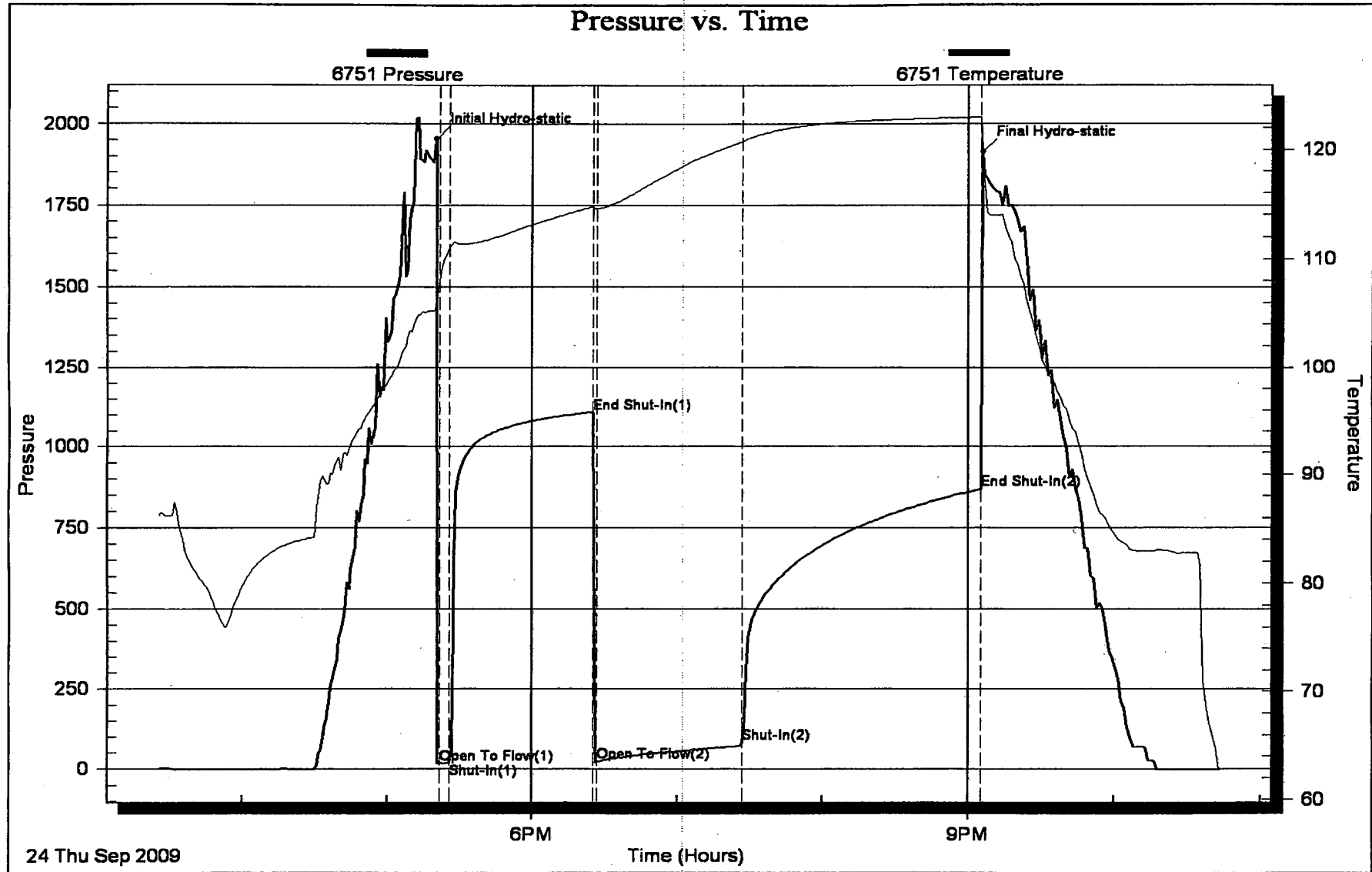
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



24 Thu Sep 2009