

**ORIGINAL**  
**KANSAS CORPORATION COMMISSION**  
**OIL & GAS CONSERVATION DIVISION**

Form ACO-1  
 June 2009  
**Form Must Be Typed**  
**Form must be Signed**  
**All blanks must be Filled**

**WELL COMPLETION FORM**  
**WELL HISTORY - DESCRIPTION OF WELL & LEASE**

OPERATOR: License # 32278  
 Name: Tengasco, Inc.  
 Address 1: PO Box 458  
 Address 2: 27 Noose Rd.  
 City: Hays State: KS Zip: 67604 + 9744  
 Contact Person: Gary Wagner  
 Phone: ( 785 ) 625-6374  
 CONTRACTOR: License # 33493  
 Name: American Eagle Drilling LLC  
 Wellsite Geologist: Mike Bair  
 Purchaser: NCRA

Designate Type of Completion:

- New Well     Re-Entry     Workover
- Oil     WSW     SWD     SLOW
- 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 #: \_\_\_\_\_

<u>9-11-11</u>	<u>9-19-11</u>	<u>10-4-11</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 195-22724-00-00

Spot Description: \_\_\_\_\_  
SW NE SW SE Sec. 27 Twp. 15 S. R. 25  East  West  
948 Feet from  North /  South Line of Section  
1,716 Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE     NW     SE     SW

County: Trego

Lease Name: Offutt Well #: 1

Field Name: Spitter Southeast

Producing Formation: Mississippian

Elevation: Ground: 2491 Kelly Bushing: 2498

Total Depth: 4672 Plug Back Total Depth: 4631

Amount of Surface Pipe Set and Cemented at: 306 Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set: 1940 Feet

If Alternate II completion, cement circulated from: 1940

feet depth to: surface w/ 220 sx cmt.

**Drilling Fluid Management Plan**

(Data must be collected from the Reserve Pit)

Chloride content: 16300 ppm Fluid volume: 225 bbls

Dewatering method used: Evaporation

Location of fluid disposal if hauled offsite: \_\_\_\_\_

Operator Name: \_\_\_\_\_

Lease Name: \_\_\_\_\_ License #: \_\_\_\_\_

Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

County: \_\_\_\_\_ Permit #: \_\_\_\_\_

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**KCC WICHITA**

**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: Gary Wagner

Title: Production Manager Date: 11-16-11

**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: DJS Date: 11/22/11

Operator Name: Tengasco, Inc. Lease Name: Offutt Well #: 1  
 Sec. 27 Twp. 15 S. R. 25  East  West County: Trego

**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: <b>Dual Induction, Density Neutron/PE, Micro</b>	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td><input checked="" type="checkbox"/> Log</td> <td>Formation (Top), Depth and Datum</td> <td><input type="checkbox"/> Sample</td> </tr> <tr> <td>Name</td> <td>Top</td> <td>Datum</td> </tr> <tr> <td>Anhydrite</td> <td>1924</td> <td>+574</td> </tr> <tr> <td>Heebner</td> <td>3804</td> <td>-1306</td> </tr> <tr> <td>Lansing</td> <td>3846</td> <td>-1348</td> </tr> <tr> <td>BKC</td> <td>4140</td> <td>-1642</td> </tr> <tr> <td>Fort Scott</td> <td>4338</td> <td>-1840</td> </tr> <tr> <td>Cherokee</td> <td>4364</td> <td>-1866</td> </tr> <tr> <td>Miss. Dolomite</td> <td>4438</td> <td>-1940</td> </tr> </table>	<input checked="" type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample	Name	Top	Datum	Anhydrite	1924	+574	Heebner	3804	-1306	Lansing	3846	-1348	BKC	4140	-1642	Fort Scott	4338	-1840	Cherokee	4364	-1866	Miss. Dolomite	4438	-1940
<input checked="" type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample																										
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BKC	4140	-1642																										
Fort Scott	4338	-1840																										
Cherokee	4364	-1866																										
Miss. Dolomite	4438	-1940																										

CASING RECORD <input checked="" 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"	23#	306'	Com	190	3% CC 2% Gel
Production	7-7/8"	5-1/2"	14#	4671'	ASC	150	10% Salt 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
6	4450-58'	1050 gal 15% NeFe w/ 2% solvent	

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TUBING RECORD: Size: <u>2-7/8"</u> Set At: <u>4616'</u> Packer At: <u>N/A</u>		Liner Run: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	KCC WICHITA
Date of First, Resumed Production, SWD or ENHR. <u>10-12-11</u>	Producing Method: <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. <u>23</u>	Gas Mcf	Water Bbls. <u>2</u> 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 checked="" type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: <u>Mississippian 4450-58'</u>
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# ALLIED CEMENTING CO., LLC. 038280

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

SERVICE POINT:

*Russell, Ks.  
5:00 5:30 PM*

DATE <i>9-1-2011</i>	SEC. <i>27</i>	TWP. <i>15</i>	RANGE <i>25</i>	CALLED OUT	ON LOCATION	JOB START <i>5:00 PM</i>	JOB FINISH <i>5:30 PM</i>
LEASE <i>OFFUTT</i>	WELL # <i>1</i>	LOCATION <i>Wokeevey Ks. S To RD "cc"</i>			COUNTY <i>Trego</i>	STATE <i>KANSAS</i>	
OLD OR <i>(NEW)</i> (Circle one)		W. TO RD "160" 2.5 1W 1N 1/2 W					

CONTRACTOR <i>American Eagle Ry # 3</i>	OWNER
TYPE OF JOB	
HOLE SIZE <i>12 1/4</i>	T.D. <i>308'</i>
CASING SIZE <i>8 5/8 New</i>	DEPTH <i>306</i>
TUBING SIZE <i>2 3/4 CSG</i>	DEPTH
DRILL PIPE	DEPTH
TOOL	DEPTH
PRES. MAX	MINIMUM
MEAS. LINE	SHOE JOINT
CEMENT LEFT IN CSG. <i>15'</i>	
PERFS.	
DISPLACEMENT <i>18 1/2 BBL</i>	
EQUIPMENT	
PUMP TRUCK CEMENTER <i>Glewin</i>	
# <i>409</i> HELPER <i>TODD</i>	
BULK TRUCK	
# <i>210</i> DRIVER <i>Ron</i>	
BULK TRUCK	
#	DRIVER
CEMENT	AMOUNT ORDERED <i>190 sx Comm.</i>
	<i>3% cc</i>
	<i>2% Gel.</i>
COMMON	<i>190 @ 16.25 3087.50</i>
POZMIX	@
GEL	<i>3 @ 21.25 63.75</i>
CHLORIDE	<i>2 @ 58.20 407.40</i>
ASC	@
	@
	@
	@
	@
	@
	@
	@
HANDLING <i>200</i>	@ <i>2.25 450.00</i>
MILEAGE <i>11/56/26</i>	@ <i>26 572.00</i>
TOTAL <i>4580.65</i>	

REMARKS:

*Ran 2 new DT's of 8 5/8 (23#) CSG set @ 306'. Reviewed Circulation & mixed 190 sx Comm 3% cc, 2% gel & Dis placed 18 1/2 BBL Behind, Shot in @ 350 #. Cement did Circulate to Surface*  
*THANK'S*

SERVICE

DEPTH OF JOB	
PUMP TRUCK CHARGE	<i>1125.00</i>
EXTRA FOOTAGE	@
MILEAGE <i>52</i>	@ <i>7.00 364.00</i>
MANIFOLD	@
<i>CON</i> <i>52</i>	@ <i>4.00 208.00</i>
	@
TOTAL <i>1697.00</i>	

CHARGE TO: *TENASCO Inc.*  
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.

PRINTED NAME \_\_\_\_\_

SIGNATURE *Larry Wagoner*

SALES TAX (If Any) \_\_\_\_\_  
TOTAL CHARGES *6277.65*  
DISCOUNT *50/20* IF PAID IN 30 DAYS

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KCC WICHITA

# ALLIED CEMENTING CO.. LLC. 038285

TO P.O. BOX 31  
RUSSELL, KANSAS 67665

SERVICE POINT:

Russell KS

DATE <u>9-19-2011</u>	SEC <u>27</u>	TWP <u>15</u>	RANGE <u>25W</u>	CALLED OUT	ON LOCATION	JOB START <u>2:30 PM</u>	JOB FINISH <u>3:00 PM</u>
LEASE <u>OFFUTT</u> WELLS # <u>1</u>	LOCATION <u>Wakeeney Ks. 22 S. TO "EE"</u>			COUNTY <u>Trego</u>	STATE <u>KANSAS</u>		
OLD OR NEW (Circle one) <u>NEW</u>	ROAD <u>10 W 1/4 N INTO</u>						

CONTRACTOR <u>American Eagle Rig #3</u>	OWNER	
TYPE OF JOB <u>PRODUCTION STRING</u>	<u>4622 LTD.</u>	
HOLE SIZE <u>7 7/8</u>	T.D. <u>4670</u>	CEMENT
CASING SIZE <u>5 1/2 New</u>	DEPTH <u>4671</u>	AMOUNT ORDERED <u>180 SX ASC</u>
PIPE SIZE <u>14# CSG</u>	DEPTH	<u>10% SALT 2% GEL</u>
DRILL PIPE	DEPTH	<u>500 GAL WFR-2 mud FLUSH</u>
TOOL AFE INSERT @	DEPTH <u>4634</u>	
PRES. MAX <u>1500</u>	MINIMUM <u>1000</u>	#LIFT
MEAS. LINE	SHOE JOINT <u>38</u>	
CEMENT LEFT IN CSG <u>38</u>		
PERFS.		
DISPLACEMENT <u>113</u>	<u>88L</u>	

EQUIPMENT		
PUMP TRUCK CEMENTER <u>Glen</u>		
# <u>417</u> HELPER <u>Woody</u>		
BULK TRUCK		
# <u>378</u> DRIVER <u>Ron</u>		
BULK TRUCK		
#		
COMMON	@	
POZMIX	@	
GEL <u>3</u>	@ <u>21.25</u>	<u>63.75</u>
CHLORIDE	@	
ASC <u>180</u>	@ <u>19.00</u>	<u>3420.00</u>
	@	
<u>WFR-2 500 Gal</u>	@ <u>1.10</u>	<u>550.00</u>
	@	
	@	
	@	
	@	
	@	
HANDLING <u>1 FT</u>	@ <u>2.25</u>	<u>41.75</u>
MILEAGE <u>11.56/mile</u>	@ <u>26</u>	<u>523.30</u>
TOTAL		<u>4968.88</u>

REMARKS:

Port Callar  
1940 (4671)

Ran 113 ITS of New 14# 5 1/2 csg.  
Set @ 4671.88 Circulate 1 HR. on Bottom  
Cement w/ 150 SX Asc Clear-Line, Release  
TRP. + Displace 113 BBL H2O. Land Plug  
@ 1500#. Release Pressure + AFE (Hold)!

30 SX @ Patchole  
THANKS

CHARGE TO: TENGASCO Inc.  
STREET \_\_\_\_\_  
CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

SERVICE

DEPTH OF JOB		
PUMP TRUCK CHARGE		<u>2405.00</u>
EXTRA FOOTAGE	@	
MILEAGE <u>52</u>	@ <u>7.00</u>	<u>364.00</u>
MANIFOLD <u>yes</u>	@	
	@	
<u>CUL</u> <u>52</u>	@ <u>4.00</u>	<u>208.00</u>
TOTAL		<u>2977.00</u>

PLUG & FLOAT EQUIPMENT

IR <u>T.R.P.</u>		<u>51.00</u>
RR <u>Guide Shoe</u>	@	<u>16.80</u>
RR <u>AFE INSERT</u>	@	<u>200.00</u>
RR <u>3-BASKETS</u>	@ <u>236.00</u>	<u>708.00</u>
RR <u>S-CENTRALIZERS</u>	@ <u>34.00</u>	<u>170.00</u>
IR <u>Port Callar</u>	@	<u>182.00</u>
TOTAL		<u>3117.00</u>

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.

PRINTED NAME Glenn Linkel  
SIGNATURE Glenn Linkel

SALES TAX (If Any) \_\_\_\_\_  
TOTAL CHARGES 11062.88  
DISCOUNT 50/20 IF PAID IN 30 DAYS

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NOV 17 2011  
KCC WICHITA

# ALLIED CEMENTING CO., LLC. 038296

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

SERVICE POINT:  
Russell Ks.

DATE <u>9-26-2011</u>	SEC <u>27</u>	TWP. <u>15 S</u>	RANGE <u>25 W</u>	CALLED OUT	ON LOCATION	JOB START <u>1:30 PM</u>	JOB FINISH <u>2:00 PM</u>
LEASE <u>OFFUTT</u>	WELL # <u>#1</u>	LOCATION <u>Wakeeney Ks. 22. South 10 West</u>			COUNTY <u>Trego</u>	STATE <u>KANSAS</u>	
OLD OR <u>NEW</u> (Circle one)		<u>174 N + W INT</u>					

CONTRACTOR Fished Well Service (Francis) OWNER \_\_\_\_\_

TYPE OF JOB Port-Collar (Circ. Cement)

HOLE SIZE \_\_\_\_\_ T.D. \_\_\_\_\_

CASING SIZE 5 1/2 DEPTH 4671

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

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

TOOL Port Collar @ DEPTH 1940

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

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

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

PERFS. \_\_\_\_\_

DISPLACEMENT T-10 / B&L

EQUIPMENT \_\_\_\_\_

PUMP TRUCK CEMENTER Glenn

# 417 HELPER Woody

BULK TRUCK

# 473 DRIVER Cody

BULK TRUCK

# \_\_\_\_\_ DRIVER \_\_\_\_\_

CEMENT 220 SX.

AMOUNT ORDERED 220 ~~500~~ Lite-wt.

w/ 1/4 # F10 Seal Per SX.

10 SX Gel on Side

COMMON	_____	@	_____	_____
POZMIX	_____	@	_____	_____
GEL	<u>10</u>	@	<u>21.25</u>	<u>212.50</u>
CHLORIDE	_____	@	_____	_____
ASC	_____	@	_____	_____
	<u>Cite 220</u>	@	<u>14.50</u>	<u>3190.00</u>
	<u>F10 Seal 55 #</u>	@	<u>2.70</u>	<u>141.50</u>
	_____	@	_____	_____
	_____	@	_____	_____
	_____	@	_____	_____
HANDLING	<u>230</u>	@	<u>2.25</u>	<u>517.50</u>
MILEAGE	<u>1115/1246 26</u>			<u>657.80</u>
				TOTAL <u>4726.30</u>

REMARKS:

Found Port Collar @ 1940' Test Csg To 1,000' (Held)  
Open PC. + Received Circulation, mixed  
10 sx gel + 220 sx Cement + Cement  
circulated around Annulus. Closed P.C.  
+ Check to 1,000' (Held) Ran 6 It's &  
Washed Clean, Short wags (2280). Came  
out of Hole w/ PC opening Tool.

THANK'S

SERVICE

DEPTH OF JOB	_____			
PUMP TRUCK CHARGE	_____			<u>1050.00</u>
EXTRA FOOTAGE	_____	@	_____	_____
MILEAGE	<u>52</u>	@	<u>7.00</u>	<u>364.00</u>
MANIFOLD	<u>yes</u>	@	_____	_____
	<u>LUL</u>	@	<u>4.00</u>	<u>208.00</u>
				TOTAL <u>1622.00</u>

CHARGE TO: Tengasco Inc.

STREET \_\_\_\_\_

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

PLUG & FLOAT EQUIPMENT

_____	@	_____	_____
_____	@	_____	_____
_____	@	_____	_____
_____	@	_____	_____
_____	@	_____	_____
TOTAL _____			

\* Cement Did Circulate  
Around ANNULAS  
To SURFACE! (APPROX. 50 SX CEMENT TO BIT)

To Allied Cementing Co., LLC.

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SALES TAX (If Any) \_\_\_\_\_

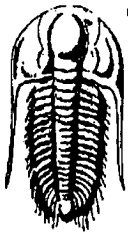
TOTAL CHARGES 6346.30

DISCOUNT 50/20 IF PAID IN 30 DAYS

PRINTED NAME \_\_\_\_\_

SIGNATURE Clay Belanger

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**TRILOBITE TESTING, INC.**

**DRILL STEM TEST REPORT**

Tengasco inc.  
 PO Box 458  
 Hays Ks. 67601+9744  
 ATTN: Mike Bair

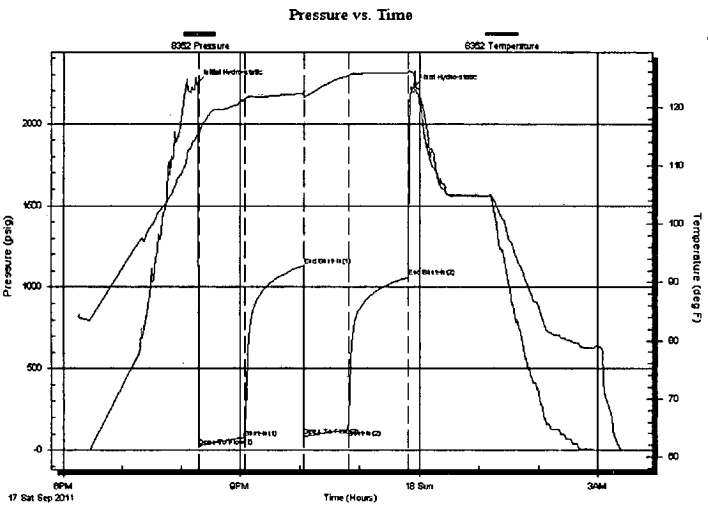
**Offutt #1**  
**27-15s-25w Trego**  
 Job Ticket: 44251      **DST#: 2**  
 Test Start: 2011.09.17 @ 18:15:05

**GENERAL INFORMATION:**

Formation: **Mississippian**  
 Deviated: No      Whipstock:      ft (KB)  
 Time Tool Opened: 20:17:30  
 Time Test Ended: 03:27:20  
 Interval: **4430.00 ft (KB) To 4461.00 ft (KB) (TVD)**  
 Total Depth: **4461.00 ft (KB) (TVD)**  
 Hole Diameter: **7.88 inches**      Hole Condition: **Poor**  
 Test Type: **Conventional Bottom Hole**  
 Tester: **Andy Carreira**  
 Unit No: **39**  
 Reference Elevations: **2447.00 ft (KB)**  
    **2440.00 ft (CF)**  
 KB to GR/CF: **7.00 ft**

**Serial #: 8352      Outside**  
 Press@RunDepth: **126.40 psig @ 4431.00 ft (KB)**      Capacity: **8000.00 psig**  
 Start Date: **2011.09.17**      End Date: **2011.09.18**      Last Calib.: **2011.09.18**  
 Start Time: **18:15:05**      End Time: **03:27:20**      Time On Btm: **2011.09.17 @ 20:16:10**  
    **03:27:20**      Time Off Btm: **2011.09.17 @ 23:51:50**

**TEST COMMENT:** IF:(45min) BOB, 14 min.  
 IS:(60min) No Return  
 FF:(45min) BOB, 15 min.  
 FS:(60min) Return Surface blow , died in 18 min.

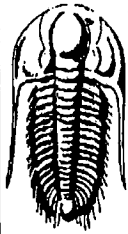


PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2243.33	115.18	Initial Hydro-static
2	19.26	114.07	Open To Flow (1)
49	76.81	121.39	Shut-In(1)
108	1132.77	122.37	End Shut-In(1)
109	84.33	121.95	Open To Flow (2)
153	126.40	125.40	Shut-In(2)
213	1062.02	125.94	End Shut-In(2)
216	2215.51	126.08	Final Hydro-static

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Recovery		
Length (ft)	Description	Volume (bbl)
62.00	GMCO g=10% m=30% o=60%	0.87
62.00	GMCO g=20% m=10% o=70%	0.87
185.00	CGO g=10% o=90%	2.60
0.00	GIP=435ft	0.00

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Tengasco inc.

**Offutt #1**

PO Box 458  
Hays Ks. 67601+9744

**27-15s-25w Trego**

Job Ticket: 44251

**DST#: 2**

ATTN: Mike Bair

Test Start: 2011.09.17 @ 18:15:05

## 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: 52.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.20 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 3200.00 ppm			
Filter Cake: inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
62.00	GMCO g=10% m=30% o=60%	0.870
62.00	GMCO g=20% m=10% o=70%	0.870
185.00	CGO g=10% o=90%	2.595
0.00	GIP=435ft	0.000

Total Length: 309.00 ft      Total Volume: 4.335 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

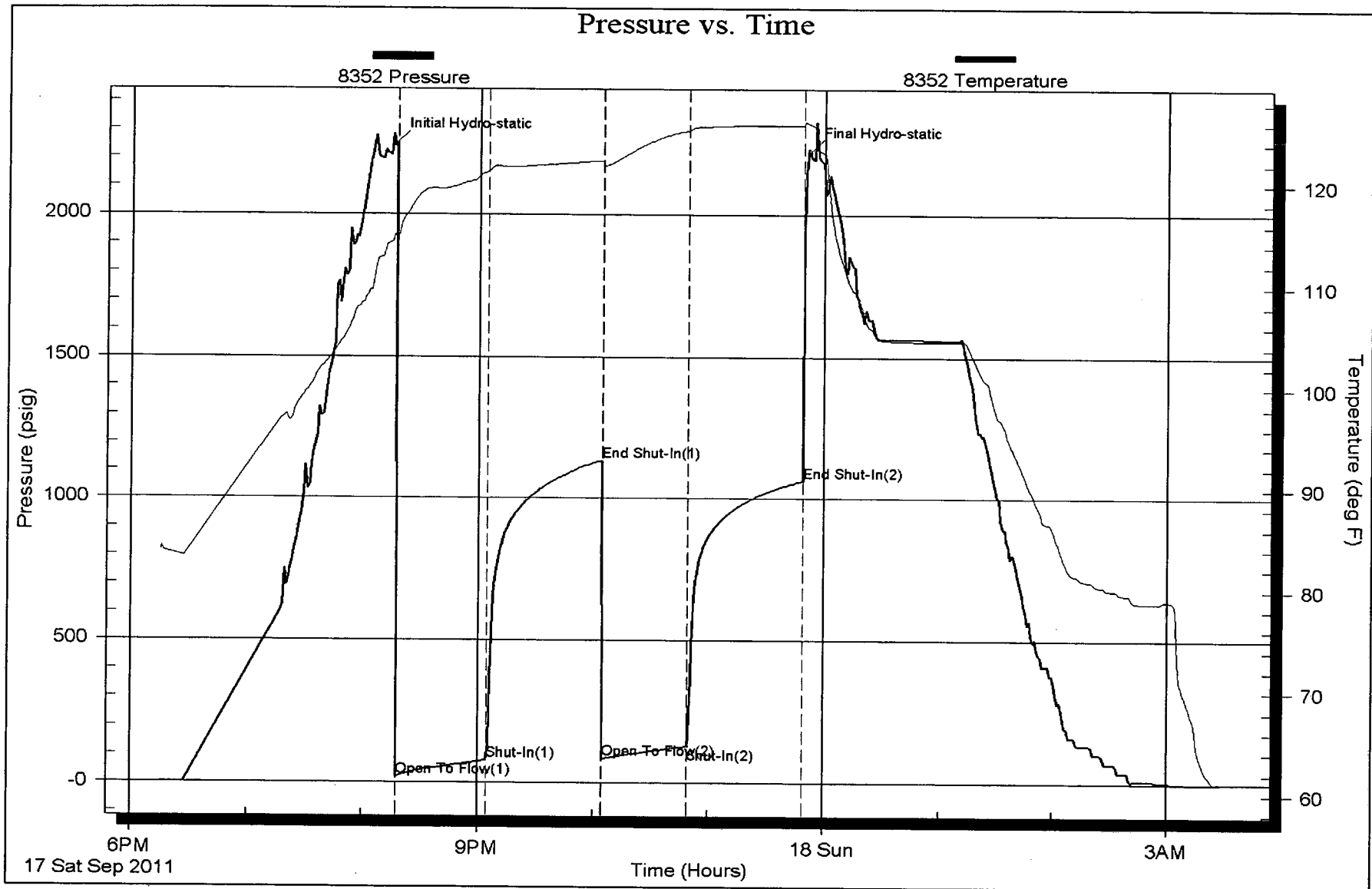
Serial #:

Laboratory Name:

Laboratory Location:

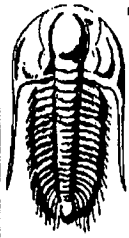
Recovery Comments:

**RECEIVED  
NOV 17 2011  
KCC WICHITA**



**RECEIVED**  
**NOV 17 2011**  
**KCC WICHITA**





**TRILOBITE TESTING, INC.**

**DRILL STEM TEST REPORT**

Tengasco inc.  
 PO Box 458  
 Hays Ks. 67601+9744  
 ATTN: Mike Bair

**Offutt #1**  
**27-15s-25w Trego**  
 Job Ticket: 44250      **DST#: 1**  
 Test Start: 2011.09.16 @ 20:45:05

**GENERAL INFORMATION:**

Formation: **FT. Scott**  
 Deviated: **No** Whipstock:                      ft (KB)  
 Time Tool Opened: 23:54:30  
 Time Test Ended: 04:34:20

Test Type: **Conventional Bottom Hole**  
 Tester: **Andy Carreira**  
 Unit No: **39**

Interval: **4346.00 ft (KB) To 4367.00 ft (KB) (TVD)**  
 Total Depth: **4367.00 ft (KB) (TVD)**  
 Hole Diameter: **7.88 inches** Hole Condition: **Poor**

Reference Elevations: **2447.00 ft (KB)**  
**2440.00 ft (CF)**  
 KB to GR/CF: **7.00 ft**

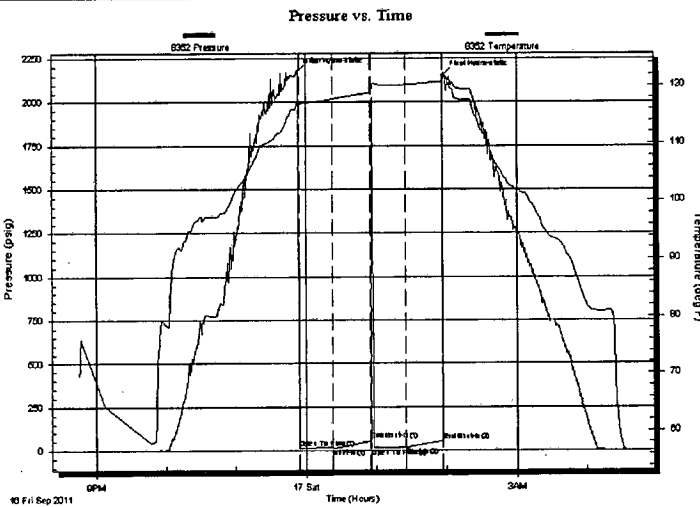
**Serial #: 8352**

**Outside**

Press@RunDepth: **16.70 psig @ 4347.00 ft (KB)**  
 Start Date: **2011.09.16**      End Date: **2011.09.17**  
 Start Time: **20:45:05**      End Time: **04:34:20**

Capacity: **8000.00 psig**  
 Last Calib.: **2011.09.17**  
 Time On Btm: **2011.09.16 @ 23:53:10**  
 Time Off Btm: **2011.09.17 @ 01:56:50**

**TEST COMMENT:** IF:(30min) Surface blow died in 20 min.  
 IS:(30min) No Return  
 FF:(30min) No blow, Flushed, blow died in 10 min.  
 FS:(30min) No Return



**PRESSURE SUMMARY**

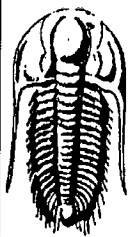
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2171.91	116.83	Initial Hydro-static
2	11.12	115.88	Open To Flow (1)
31	15.12	117.69	Shut-In(1)
63	54.42	118.76	End Shut-In(1)
63	13.07	118.87	Open To Flow (2)
92	16.70	120.17	Shut-In(2)
123	53.43	120.66	End Shut-In(2)
124	2153.12	122.31	Final Hydro-static

**Recovery**

Length (ft)	Description	Volume (bbl)
20.00	SOSM	0.28

**Gas Rates**

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



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

## DRILL STEM TEST REPORT

FLUID SUMMARY

Tengasco inc.  
PO Box 458  
Hays Ks. 67601+9744  
ATTN: Mike Bair

**Offutt #1**  
**27-15s-25w Trego**  
Job Ticket: 44250      DST#: 1  
Test Start: 2011.09.16 @ 20:45:05

### 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:	57.00 sec/qt	Cushion Volume:	bbbl		
Water Loss:	7.20 in <sup>3</sup>	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	4200.00 ppm				
Filter Cake:	inches				

### Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
20.00	SOSM	0.281

Total Length: 20.00 ft      Total Volume: 0.281 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

