



KANSAS CORPORATION COMMISSION 1087174  
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: 1327 NOOSE RD  
Address 2: PO BOX 458  
City: HAYS State: KS Zip: 67601 + 9744  
Contact Person: Gary Wagner  
Phone: ( 785 ) 625-6374  
CONTRACTOR: License # 33493  
Name: American Eagle Drilling LLC  
Wellsite Geologist: Mike Bair  
Purchaser: Coffeyville Resources

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 #: \_\_\_\_\_

05/02/2012	05/12/2012	06/05/2012
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-163-24035-00-00  
Spot Description: \_\_\_\_\_  
    NW SE NW Sec. 30 Twp. 7 S. R. 17  East  West  
1650 Feet from  North /  South Line of Section  
1650 Feet from  East /  West Line of Section  
Footages Calculated from Nearest Outside Section Corner:  
 NE  NW  SE  SW  
County: Rooks  
Lease Name: K.U. Endowment A Well #: 3  
Field Name: Riffe  
Producing Formation: Arbuckle  
Elevation: Ground: 1783 Kelly Bushing: 1790  
Total Depth: 3370 Plug Back Total Depth: 3301  
Amount of Surface Pipe Set and Cemented at: 1226 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: 51000 ppm Fluid volume: 160 bbls  
Dewatering method used: Hauled to Disposal  
Location of fluid disposal if hauled offsite:  
Operator Name: Tengasco, Inc.  
Lease Name: Chaffin License #: 32278  
Quarter NW Sec. 19 Twp. 7 S. R. 17  East  West  
County: Rooks Permit #: D-22219

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.

Submitted Electronically

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: Deanna Gertler Date: 07/12/2012



1087174

Operator Name: Tengasco, Inc. Lease Name: K.U. Endowment A Well #: 3  
 Sec. 30 Twp. 7 S. R. 17  East  West County: Rooks

**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 (Attach Additional Sheets)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Log Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Name Attached	Top Datum Attached
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 (If no, Submit Copy)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
List All E. Logs Run:			
Dual Induction Density Neutron/PE Micro			

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
Conductor	17	13.375	54	89	Com	100	3% CC, 2% gel
Surface	12.25	8.625	23	1226	Com	580	3% CC, 2% gel
Production	7.875	5.5	14	3369	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 checked="" type="checkbox"/> Plug Off Zone	3305-3310	Com	50	

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
6	3305-10	Squeezed	
6	3305-09	300 gal 15% MA	
		CIBP	3301
6	3290-95		

TUBING RECORD:	Size: <u>2-7/8"</u>	Set At: <u>3280</u>	Packer At: <u>N/A</u>	Liner Run: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumed Production, SWD or ENHR. <u>06/07/2012</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>3</u>	Gas Mcf	Water Bbls. <u>17</u>	Gas-Oil Ratio Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease (If vented, Submit ACO-18.)	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input checked="" type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled (Submit ACO-5) <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: <u>Arb 3290-95'</u>
--	--	---

Form	ACO1 - Well Completion
Operator	Tengasco, Inc.
Well Name	K.U. Endowment A 3
Doc ID	1087174

Tops

Name	Top	Datum
Anhydrite	1211	+579
Topeka	2706	-916
Heebner	2914	-1124
Toronto	2935	-1145
Lansing	2956	-1166
BKC	3183	-1393
Arbuckle	3243	-1453
RTD	3369	-1579

# MUD LOG

## WellSight Systems

Scale 1:240 (5"=100') Imperial  
Measured Depth Log

Well Name: KU ENDOWMENT #3  
Location: NW SE NW Sec. 30 ;Twnsp. 7 s.; Rge. 17 w.  
License Number: 32278  
Spud Date: 5/2/2012  
Surface Coordinates: 1650' FNL & 1650' FWL  
S 30 T 7s R 17w  
Region: Rooks County, KS  
Drilling Completed: 5/12/2012  
Bottom Hole Coordinates:  
Ground Elevation (ft): 1783' K.B. Elevation (ft): 1790'  
Logged Interval (ft): 2600' To: 3345' Total Depth (ft): 3370'  
Formation: Arbuckle  
Type of Drilling Fluid: Chemical

Printed by MUD.LOG from WellSight Systems 1-800-447-1534 www.WellSight.com

### OPERATOR

Company: TENGASCO, INC.  
Address: 1327 Noose Rd.  
Hays, KS. 67601

### GEOLOGIST

Name: Mike Bair  
Company: Basin Resources L.L.C.  
Address: Longmont, CO.

### FORMATION TOPS

FORMATION	LOG	SAMPLE
Anhydrite	1211 (+579)	1210 (+580)
Topeka	2706 (-916)	2706 (-916)
Heebner	2914 (-1124)	2914 (-1124)
Toronto	2935 (-1145)	2938 (-1148)
Lansing	2956 (-1166)	2956 (-1166)
BKC	3183 (-1393)	3183 (-1393)
Arbuckle	3243 (-1453)	3242 (-1453)
TD	3369 (-1579)	3370 (-1580)

### DSTs

DST#1 2730-2747 45-45-45-45  
 FP: (32-36)(37-45) SIP: 480-473  
 REC: 6' mw (80%w, 20%*m*) 6' *wm* (40% *w*, 60%*m*)

DST#2 3039-3060 45-45-60-45  
 FP: (21-26)(22-30) SIP: 105-99  
 REC: 30' vsocm (3% oil, 97%*m*)

DST#3 3242-3280 45-45-45-45  
 FP: (24-29)(29-30) SIP: 162-91  
 REC: 5' free oil, 10' ocm (10% oil, 90% *m*)

DST#4 3275-3316 45-45-45-45 (Straddle)  
 FP: (30-54)(68-92) SIP: 981-954  
 REC: 10' Free oil, 53' ocm (10% oil, 80%*m*, 10%*w*)  
 93' socm (5% oil, 95% *m*) 155' Total Recovery

### Comments

8 5/8' set at 1226'  
 Production casing was ran to further test the economic potential of the Arbuckle Formation.

### ROCK TYPES

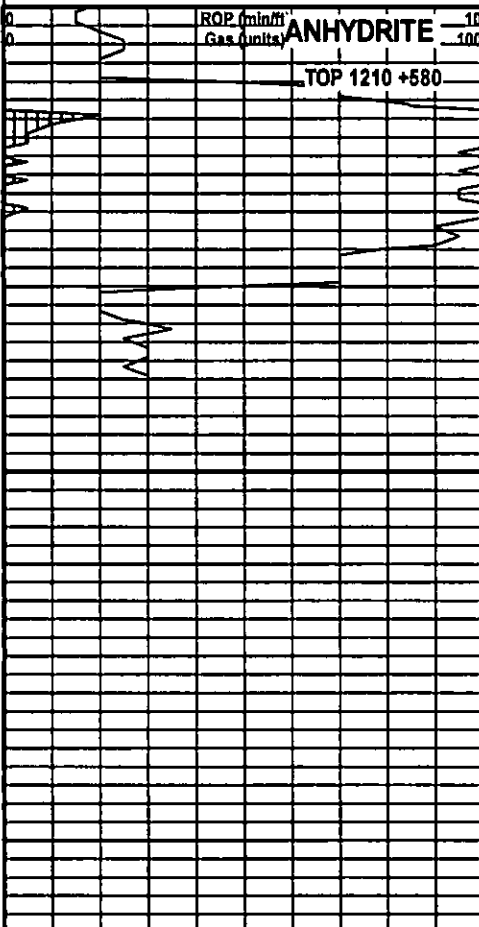
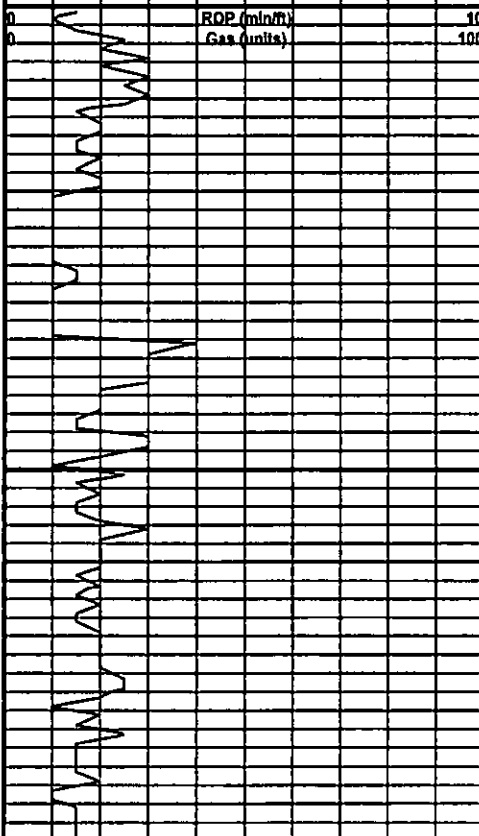
 Anhy	 Clyst	 Gyp	 Mrlst	 Shgy
 Bent	 Coal	 Igne	 Salt	 Siltst
 Brec	 Congl	 Lmst	 Shale	 Ss
 Cht	 Dol	 Meta	 Shcol	 Till

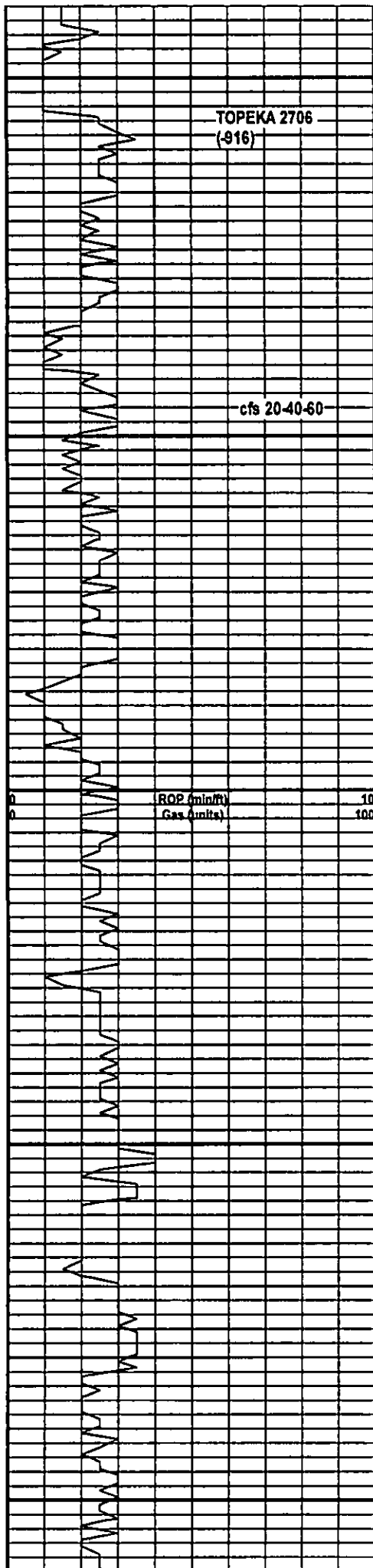
### ACCESSORIES

<b>MINERAL</b>	<input type="checkbox"/> Gyp	<b>FOSSIL</b>	<input type="checkbox"/> Ostra	<input type="checkbox"/> Siltstrg
<input type="checkbox"/> Anhy	<input type="checkbox"/> Hvymin	<input type="checkbox"/> Algae	<input type="checkbox"/> Pelec	<input type="checkbox"/> Ssstrg
<input type="checkbox"/> Arggrn	<input type="checkbox"/> Kaol	<input type="checkbox"/> Amph	<input type="checkbox"/> Pellet	
<input type="checkbox"/> Arg	<input type="checkbox"/> Marl	<input type="checkbox"/> Belm	<input type="checkbox"/> Pisolite	<b>TEXTURE</b>
<input type="checkbox"/> Bent	<input type="checkbox"/> Minxl	<input type="checkbox"/> Bioclst	<input type="checkbox"/> Plant	<input type="checkbox"/> Boundst
<input type="checkbox"/> Bit	<input type="checkbox"/> Nodule	<input type="checkbox"/> Brach	<input type="checkbox"/> Strom	<input type="checkbox"/> Chalky
<input type="checkbox"/> Brecfrag	<input type="checkbox"/> Phos	<input type="checkbox"/> Bryozoa		<input type="checkbox"/> Cryxln
<input type="checkbox"/> Calc	<input type="checkbox"/> Pyr	<input type="checkbox"/> Cephal	<b>STRINGER</b>	<input type="checkbox"/> Earthy
<input type="checkbox"/> Carb	<input type="checkbox"/> Salt	<input type="checkbox"/> Coral	<input type="checkbox"/> Anhy	<input type="checkbox"/> Finexln
<input type="checkbox"/> Chtdk	<input type="checkbox"/> Sandy	<input type="checkbox"/> Crin	<input type="checkbox"/> Arg	<input type="checkbox"/> Grainst
<input type="checkbox"/> Chtlit	<input type="checkbox"/> Silt	<input type="checkbox"/> Echin	<input type="checkbox"/> Bent	<input type="checkbox"/> Lithogr
<input type="checkbox"/> Dol	<input type="checkbox"/> Sil	<input type="checkbox"/> Fish	<input type="checkbox"/> Coal	<input type="checkbox"/> Microxln
<input type="checkbox"/> Feldspar	<input type="checkbox"/> Sulphur	<input type="checkbox"/> Foram	<input type="checkbox"/> Dol	<input type="checkbox"/> Mudst
<input type="checkbox"/> Ferrpel	<input type="checkbox"/> Tuff	<input type="checkbox"/> Fossil	<input type="checkbox"/> Gyp	<input type="checkbox"/> Packst
<input type="checkbox"/> Ferr		<input type="checkbox"/> Gastro	<input type="checkbox"/> Ls	<input type="checkbox"/> Wackest
<input type="checkbox"/> Glau		<input type="checkbox"/> Oolite	<input type="checkbox"/> Mrst	

### OTHER SYMBOLS

<b>POROSITY</b>	<input checked="" type="checkbox"/> Vuggy	<b>ROUNDING</b>	<input type="checkbox"/> Spotted	<b>EVENT</b>
<input type="checkbox"/> Earthy		<input type="checkbox"/> Rounded	<input type="checkbox"/> Ques	<input type="checkbox"/> Rft
<input type="checkbox"/> Fenest	<b>SORTING</b>	<input type="checkbox"/> Subrnd	<input type="checkbox"/> Dead	<input type="checkbox"/> Sidewall
<input type="checkbox"/> Fracture	<input type="checkbox"/> Well	<input type="checkbox"/> Subang		
<input type="checkbox"/> Inter	<input type="checkbox"/> Moderate	<input type="checkbox"/> Angular	<b>INTERVAL</b>	
<input type="checkbox"/> Moldic	<input type="checkbox"/> Poor		<input type="checkbox"/> Core	
<input type="checkbox"/> Organic		<b>OIL SHOW</b>	<input type="checkbox"/> Dst	
<input type="checkbox"/> Pinpoint		<input type="checkbox"/> Even		

Curve Track 1 ROP (min/ft) _____ Gas (units) .....	Depth Porosity Type	Lithology	Geological Descriptions	Remarks TG (Units) _____ C1 (units) ._____ C2 (units) .._____ C3 (units) ..._____ C4 (units) ...._____ C5 (units) ....._____
 <p>ROP (min/ft) Gas (units) <b>ANHYDRITE</b> TOP 1210 +580</p>	25 2550			1000
 <p>ROP (min/ft) Gas (units)</p>	2600 2650		Sh, gry; Sls, gry, qtz, argil, ns, n/o	1000   vis 42 wt 8.9 LCM 2#



2700

TOPEKA 2706  
(-916)

2760

cfs 20-40-60

2800

ROP (min/ft) 10  
Gas (units) 100

2850

2900

Ls, tan-gry, fxl, foss to sl gran, ns, n/o

a/a; Sh, gry

Ls, crm, fxl to sl gran, some foss, sl ixgran to sl foss por, r pc w fr vy por, lt SFO wh bxn, sp'd surf to sp'd sat'd strn 2747 40 min

a/a v wk odor 2747 60 min

Ls, gry to crm, wkstn to pkstn, pr-sl ixgran por to Ls, tan, fxl, mdstn, ns, n/o

Ls, lt tan, a/a, sc'd cky, ns, n/o

Ls, gry, pell, slty to Ls, crm, fxl to sl gran, pr vis por, ns, n/o cky in pt

Ls, tan, dolomitic, suc, sl suc por, ns, n/o 2800

Sh, blk; Ls, a/a

Ls, brn, wkstn, ns, n/o

Ls, lt tan, fxl, mdstn, few cal xls, sc'd ck, ns, n/o

Ls, ofwh, fxl, nvp, ns, n/o

Ls, crm, wkstn, few foss frags, pr vis por, ns, n/o

Ls, gry, wkstn w sh incl, pr por, ns, n/o

Ls, crm-brn, fxl, few foss frags, ns, n/o

Ls, crm, ool, sp'd surf strn, sp'd sl ixool por, few pcs sl ixool por, lt sfo, wk od 2880

Ls, a/a, Chert, brn, fresh, dse, ns, n/o

Ls, crm to tan, fxl, few sl foss, some w sh incl, r pc Ls, crm, gran, sl-fr ixgran por, lt sfo, n/o 2900

Ls, crm, ool, pr to sl ixool por, sp'd strn, sl sfo wh bxn, cky in pt, v wk odor 2910

Ls, crm, fxl to Ls, gry, wkstn-pkstn, few fos frags, sh incl, tr pyrite, ns, n/o

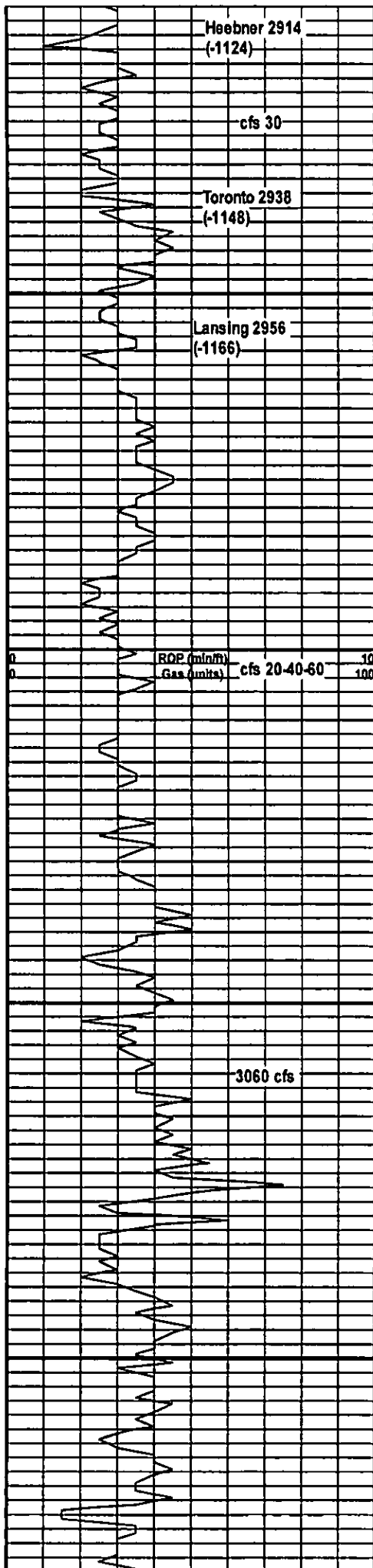
vis 62  
wt 9.2  
LCM 2#

DST#1 2730-2747  
12' mw

vis 60  
wt 9.0  
LCM 2#

vis 58  
wt 9.1  
LCM 2#  
rpm 54  
pp 650#

1000



SH, blk, sl carb, platy 2926

Sh, v.c., mrn-lt gry, soft, cky; r pc Ls, wh, pr vis por, v sp'd surf str, v sl sfo wh bxn, n/o 2940

Ls, wh, ool, pr ool por, sp'd str, v sl sfo to Ls, tan, fxl to sl gran, even surf str to poss lt even sat'd str, sl sfo, pr vis por, n/o 2950

Ls, wh, fxl to Sist, grn, fri; Chert, wh-crm, fresh, dse; pc Ls, ool, a/a, ns, n/o

pr sample, abdn't soft red sh 2970

Ls, wh, fxl; Chert, crm, fresh, dse, ns, n/o

Ls, fxl, nvp, v sl sfo wh bxn, some sl cky, lt surf str, fr odor 3003 20 min

Ls, a/a to r pc Ls, wh, ool, pr to L-fr ixool por, lt str, nsfo, v sl odor 3003 40 min

Ls, crm-tan, pr por, 1 pc Ls, wh, ool, pr por, sp'd brn str, dse, n/o

Ls, wh-crm, fxl, r pc w cal rexln, lt str on frac edge, n/o

Ls, of wh, ool, lt even str, v sl sfo wh bxn, pr por; Chert, wh-crm, wk odor 3050

a/a, some cky, pr vis por, few pcs sl ixool por, lt odor 3060

Ls, ool-oom, fr oom por to few w fr vgy por, lt sat'd str, sl-fr sfo, gd odor 3060 20 min

Ls, oom, a/a to Ls, wh, fxl, nvp, ns, sl cky, wk to L fr odor 3070

Ls, crm-brn, mst fxl, few weathered rind, ns, n/o

SH, blk; Ls, lt gry-brn, mdstr, some w sh incl, micro pyrite, ns, n/o

Ls, dolomitic, sl suc por, ns to few pc Ls, crm, fgran, pr por, lt sat'd str, r sfo wh bxn, n/o 3100

Chert, wh, trans, brn, fresh, dse, ns, n/o

considerable Chert, a/a 3120

Ls, wh, pkstr, sl vis por, lt str, v sl sfo wh bxn sl cky to Ls, wh, grmstr (ool), v sl vis por, lt even str, v sl sfo wh bxn, sl odor 3120

Ls, gry-brn, few pcs sl vy por, nsfo to foss, pr vis por, n/o

vis 48  
wt 9.2  
LCM 1 1/2#

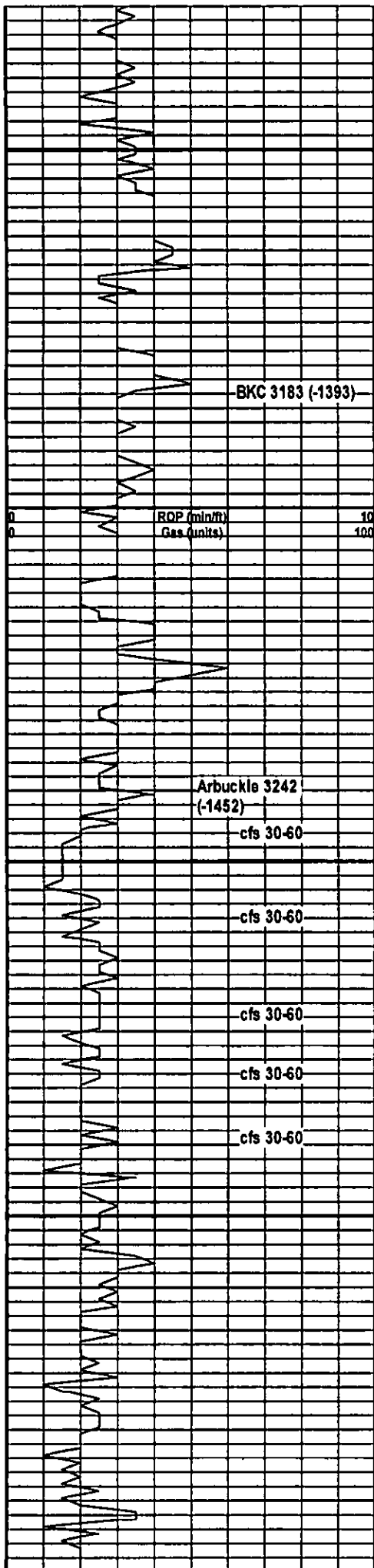
NOTE: "C" Zone  
fair odor, NSFO

vis 63  
wt 9.2  
LCM 2#

DST#2 3039 - 3060  
30' SOCM

vis 48  
wt 9.3  
LCM 2#





3150  
3200

ROP (min/ft) 10  
Gas (units) 100

BKC 3183 (-1393)

Arbuckle 3242 (-1452)

cfs 30-60

cfs 30-60

cfs 30-60

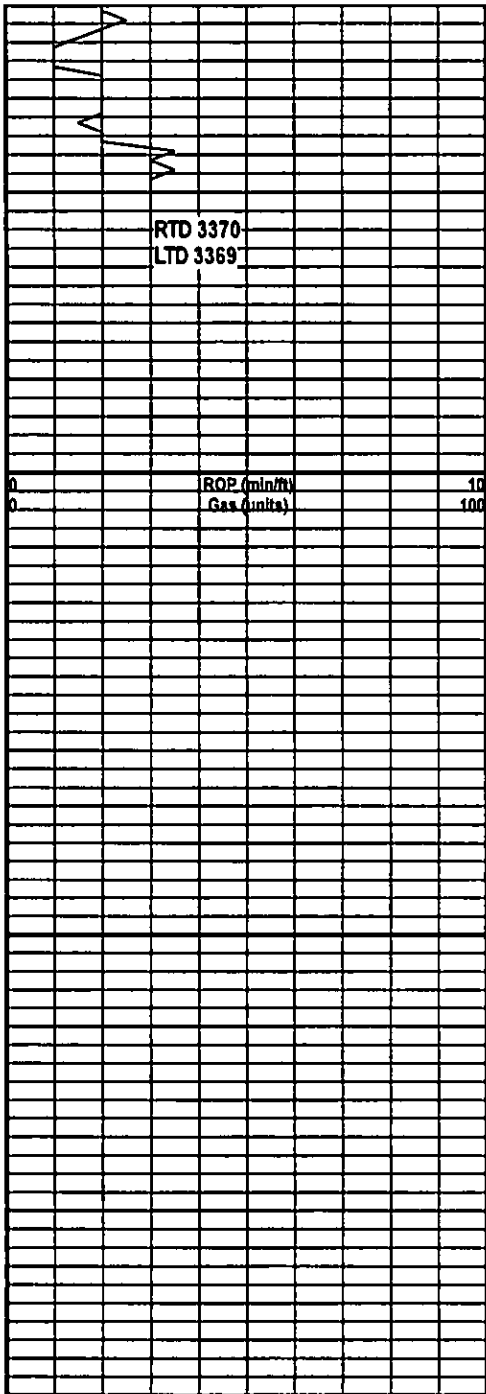
cfs 30-60

cfs 30-60

3300

50

<p>Chert, lt gry; Ls, mst wh, lxl w few LW, wh, lxl w ool, sl ool por, spt'd stn, v sl sfo, n/o 3145</p> <p>flood of Sh, blk 3145 20 min sample</p> <p>Ls, wh-gry, fxl to foss, pr vis por, poss lt stn in few rxns, nsfo, n/o; couple pcs, Ls, wh, sl gran, v sl ixgran por, even sa'd stn, v sl sfo, n/o 3145 40/60 min</p> <p>Ls, wh, ool, pr-sl ixool por, mst tite spt'd stn, v sl sfo few gs bbis wh bxn, v wk odor 3160/3165</p> <p>Chert, brn, fresh, dse; Ls, wh, fxl to ool, pr vis por, spt'd stn, v sl sfo, v wk odor 3170</p> <p>Sh, blk; Chert, a/a to Ls, tan-brn, few foss frags, pr por, ns, n/o</p> <p>Ls, wh, cky to Ss, qtz, f grn, calc, dse, ns, n/o</p> <p>Ls, crm-tan, fxl to ool, r pc gran w lt stn, lt sfo; SH, v.c., Chert, v.c., n/o</p> <p>a/a; sh, red, soft</p> <p>Ls, crm, ool, spty sl ixool por, fr sa'd stn, fr sfo wh bxn, v low rep</p> <p>Dolo, tan, mxl, tite, nvp, n/o, ns 3246 20 min</p> <p>a/a r pc Ls, oom, spt'd stn, nsfo, n/o</p> <p>Dolo, a/a, few pcs w hvy blk stn, sl sfo, few w xl growth on edge w lt brn oil stn, r pc w vy, mst tite; few pcs oolitic, dse, spt'd ixool por, sl sfo, poss v wk odor 3256 60</p> <p>Dolo, tan, f-mxl, mst tite, few pc w fr vy por, sl sfo in vgs to few spt'd surf stn, v sl sfo, incr rxns w xl growth-stn on edge 3270 30/60 min</p> <p>Dolo, a/a to Dolo, wh, f xl, few w hvy blk live oil on edge, n/o 3280</p> <p>Dolo, a/a to Dolo, f-mxl, sl-fr lxl por, spt'd surf to sa'd stn, L-fr sfo wh bxn, lt-fr odor 3280 30 min sample: sl decr in odor 60 min</p> <p>Dolo, wh-crm, mst barren to few pcs w xl growth on edge w oil stn; r pc Dolo, f grn, sa'd stn, fr sfo, fr lxl por; few fxl, sl vgy, w sfo in vg, many w grn stn on edge, lt-fr odor 3290 30</p> <p>Dolo, wh, fxl, mst barren, couple pc dolo, wh, m-l xl, fr sfo wh bxn, sl-fr por, wk odor 3290 60</p> <p>Dolo, wh, m-lg xl, sl-fr lxl por, sl to fr vg por in few rxns, gd sfo, hvy blk oil, gd rep, strong odor 3300</p> <p>Dolo, a/a, sl dec in sfo and odor, hvy blk oil, forms droplets; gd odor</p> <p>Dolo, whf-mxl, most barren to dolo a/a, decr in show and odor, hvy blk oil, tarry, tr Chert, lt gry, fresh, dse, fr-gd odor 3320</p> <p>a/a, hvy tarry oil, some sh, gry-grn, 3330</p>	<p>vis 53 wt 9.5 LCM 1#</p> <p>DST#3 3242-3280</p> <p>MUDCO CK 3270 vis 54 wt 9.4 W.L. 7.2 LCM 3# Chlr 2400</p> <p>vis 53 wt 9.4 LCM 3#</p> <p>DST#4 3275-3316 Straddle</p>
--	---



33

3400

3450

3500

Dolo, a/a, v low rep on snowm most barren, n/o

Dolo, crm-wh, fxl to f-m xl, tite; Chert, lt gry, ns, n/o

Dolo, lt tan, suc, fr-gd suc por, ns, n/o 3360

a/a to Dolo, f-mxl, some sandy, ns, n/o 3370 60 min

MUDCO CK 3370

vis 55

wt 9.3

WL 7.2

LCM 3#

Chlr 2400

ROP (min/ft) 10  
Gas (units) 100

1 1000

# ALLIED OIL & GAS SERVICES, LLC 060407

FORM NO. 1001

SHIP TO: P.O. BOX 31  
RUSSELL, KANSAS 67335

SERVICE POINT: Russell, KS.

DATE: <u>5-2-12</u>	SEC: <u>30</u>	TWP: <u>7 S</u>	RANGE: <u>17 W</u>	CALLED OUT	ON LOCATION	JOB START: <u>10:30 AM</u>	JOB FINISH: <u>10:30 PM</u>
LEASE: <u>K-4</u>				WELL# <u>A-3</u>	LOCATION: <u>Stoney Isle 1/4 S</u>	COUNTY: <u>Rooks</u>	STATE: <u>KANSAS</u>
OLD OR NEW (Circle one)							

CONTRACTOR: <u>American Eagle Rig #2</u>	OWNER
TYPE OF JOB: <u>CONDUCTOR</u>	
HOLE SIZE: <u>17 1/4</u>	I.D. <u>9 1/4</u>
CASING SIZE: <u>13 5/8</u>	DEPTH: <u>28289</u>
TOBBING SIZE: <u>8 5/8 Blending</u>	DEPTH: <u>11 FT</u>
DRILL PIPE	DEPTH
TOOL	DEPTH
PRES. MAX	MINIMUM
MEAS. LINE	SHOE JOINT
CEMENT LEFT IN CSO:	
PERFS. <u>220/104</u>	
DISPLACEMENT: <u>12 1/4 BBL.</u>	
EQUIPMENT	
PUMP TRUCK # <u>419</u>	CEMENTER <u>Glen G.</u>
	HELPER <u>Woody O.</u>
BULK TRUCK # <u>423</u>	DRIVER <u>Chris G.</u>
BULK TRUCK #	DRIVER

CEMENT AMOUNT ORDERED: <u>100 SX Comm.</u>	
<u>370 cc</u>	
<u>290 GEL</u>	
COMMON: <u>100 SX @ 16.25</u>	<u>1625.00</u>
POZMIX	@
GEL: <u>2 SX @ 21.25</u>	<u>42.50</u>
CHLORIDE: <u>4 SX @ 58.20</u>	<u>232.80</u>
ASC	@
	@
	@
	@
	@
	@
	@
	@
	@
HANDLING: <u>Job Total SX @ 2.25</u>	<u>225.00</u>
MILEAGE: <u>60 Ten Mile</u>	<u>699.60</u>
TOTAL <u>2838.40</u>	

REMARKS:  
Ran 2 Joints of 9 1/4" 13 5/8 csg.  
SET @ 28', Reviewed Circulation  
of Cement w/ 100 SX Comm. 320 cc  
290 GEL, Displaced 12 1/4 BBL  
H<sub>2</sub>O Behind Cement, + SHOT-IN  
@ 200 #.  
Cement DID CIRCULATE  
TO SURFACE. THANKS

SERVICE	
DEPTH OF JOB: <u>9 1/4</u>	
PUMP TRUCK CHARGE	<u>1125.00</u>
EXTRA FOOTAGE	@
MILEAGE: <u>HJ MT-60 @ 7.00</u>	<u>420.00</u>
MANIFOLD: <u>LV MT-60 @ 4.00</u>	<u>240.00</u>
	@
TOTAL <u>1785.00</u>	

CHARGE TO: TENG 8900 INC.  
 STREET \_\_\_\_\_  
 CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

FLUG & FLOAT EQUIPMENT	
<u>2-CENTRALIZERS</u>	@ <u>70.00</u> <u>140.00</u>
	@
	@
	@
TOTAL _____	

To: Allied Oil & Gas Services, 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): <u>128.79</u>	
TOTAL CHARGES: <u>4767.40</u>	
DISCOUNT: <u>24/50</u> <u>1361.36</u>	IF PAID IN 30 DAYS

PRINTED NAME: \_\_\_\_\_  
 SIGNATURE: Karl Hales

# ALLIED OIL & GAS SERVICES, LLC 053559

Federal Tax.

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

SERVICE POINT:  
Great Bend KS

DATE 6-12	SEC 30	TWP. 07S	RANGE 17W	CALLED OUT	ON LOCATION	JOB START 8:00 am	JOB FINISH 5:15 pm
LEASE # A1	WELL # 3	LOCATION 13 Section, 1/2 E. South into			COUNTY 80=KS	STATE KS	
OLD OR NEW (Circle one)							

CONTRACTOR American Eagle # 2  
TYPE OF JOB ~~Water~~ Production  
HOLE SIZE 2 3/4 T.D. 1230  
CASING SIZE 3 5/8 DEPTH 1236 + 11 = 1247  
TUBING SIZE DEPTH  
DRILL PIPE 4 1/2 DEPTH  
TOOL DEPTH  
PRES. MAX MINIMUM  
MEAS. LINE SHOE JOINT 6.04  
CEMENT LEFT IN CSG.  
PERFS.  
DISPLACEMENT freshwater

EQUIPMENT

PUMP TRUCK CEMENTER Shawn X  
#338 HELPER Dustin C  
BULK TRUCK  
#410 DRIVER Joel M  
BULK TRUCK  
#438 DRIVER Kevin E

REMARKS:

See Cement Log

OWNER Tengasco  
CEMENT  
AMOUNT ORDERED 580 SXS Com 370 cc  
270 gel

COMMON 580	@ 16.25	9,425.00
POZMIX	@	
GEL 11	@ 21.25	233.75
CHLORIDE 20	@ 58.20	1164.00
ASC	@	
	@	
	@	
	@	
	@	
	@	
HANDLING 627.19	@ 2.40	1,316.93
MILEAGE 28.62 <del>60</del> X 60	@ 2.35	4,035.22
TOTAL		16,175.31

SERVICE

DEPTH OF JOB 1247		
PUMP TRUCK CHARGE	1125.00	
EXTRA FOOTAGE 747	@ .95	709.65
MILEAGE Hum 60	@ 7.00	420.00
MANIFOLD	@	
Hum 60	@ 4.00	240.00
	@	
TOTAL		2,494.65

CHARGE TO: Tengasco  
STREET \_\_\_\_\_  
CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

PLUG & FLOAT EQUIPMENT

<del>Sanitizer</del>	@	
2 Baskets	@ 478.00	956.00
AFA insert & Ball	@ 322.00	322.00
Rubber Plug	@ 112.00	112.00
<del>Split Stone (top)</del>	@	
TOTAL		1456.00

To: Allied Oil & Gas Services, 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 X Keith Kulci  
SIGNATURE X Keith Kulci

SALES TAX (If Any) \_\_\_\_\_  
TOTAL CHARGES 20,120.16  
50% 20% 5,482.15  
DISCOUNT \_\_\_\_\_ IF PAID IN 30 DAYS  
14,637.91



# ALLIED OIL & GAS SERVICES, LLC 056115

Federal Tax I.F

PO BOX 31  
RUSSELL, KANSAS 67665

SERVICE POINT: Russell

DATE <u>5-13-12</u>	SEC <u>30</u>	TWP. <u>7s</u>	RANGE <u>17</u>	CALLED OUT	ON LOCATION	JOB START <u>10:00</u>	JOB FINISH <u>10:00</u>
K.U. Endowment LEASE		WELL # <u>A-3</u>		LOCATION <u>Section 13 SE S1ND</u>		COUNTY <u>ROCKS</u>	STATE <u>KS</u>
<input checked="" type="radio"/> OLD OR <input type="radio"/> NEW (Circle one)							

CONTRACTOR <u>American Eagle #2</u>	
TYPE OF JOB <u>PIPE Installation</u>	
HOLE SIZE <u>7 7/8</u>	I.D. <u>3370</u>
CASING SIZE <u>5 7/8</u>	NEW DEPTH <u>3369</u>
TUBING SIZE	DEPTH
DRILL PIPE	DEPTH
TOOL	DEPTH
PRES. MAX	MINIMUM
MEAS. LINE	SHOE JOINT <u>18</u>
CEMENT LEFT IN CSG. <u>18</u>	
PERFS.	
DISPLACEMENT <u>81 3/4 bbl</u>	

OWNER	
CEMENT	
AMOUNT ORDERED <u>180sk ASC</u>	
COMMON	@
POZMIX	@
GEL	@
CHLORIDE	@
ASC	@

**EQUIPMENT**

PUMP TRUCK # <u>409</u>	CEMENTER <u>Todd</u>
BULK TRUCK # <u>410</u>	HELPER <u>Tony</u>
BULK TRUCK #	DRIVER <u>Robert Y.</u>
BULK TRUCK #	DRIVER

<u>mid flow 1/2" 2" 3"</u>	@	<u>1.27</u>	<u>635.00</u>
<u>180 sk ASC</u>	@	<u>19.20</u>	<u>3420.00</u>
HANDLING <u>206</u>	@	<u>0.25</u>	<u>508.50</u>
MILEAGE <u>13100</u>	@	<u>11</u>	<u>1441.00</u>
<b>TOTAL</b>			<u>6005.38</u>

**REMARKS:**  
 ran 81 3/4 of 8 1/8 14" New set at 3369  
 circulated 1 hr in bottom, cement rest  
 hole w 30sk, mixed 1200 mid flow (500)  
 Pulling by 180sk ASC, closed line + released  
 latch down plug and displaced 82 bbls  
 H<sub>2</sub>O, landed Plug @ 1803 #  
 set with pressure and Plug Held  
 194 Down & 825  
 Thank

**SERVICE**

DEPTH OF JOB	<u>3370</u>	
PUMP TRUCK CHARGE		<u>2225.00</u>
EXTRA FOOTAGE	@	
MILEAGE <u>MILV SB</u>	@ <u>7.60</u>	<u>408.00</u>
MANIFOLD <u>MILV SB</u>	@ <u>4.00</u>	<u>278.20</u>
EMHO	@ <u>2.00</u>	<u>NK.</u>
<b>TOTAL</b>		<u>2763.40</u>

CHARGE TO: Tengasco

STREET \_\_\_\_\_

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

**PLUG & FLOAT EQUIPMENT**

<u>54 Plug sks</u>	@ <u>3.01</u>	<u>1624</u>
<u>Centralizers 6</u>	@ <u>34</u>	<u>204</u>
<u>latch Down</u>	@	<u>194</u>
<b>TOTAL</b>		<u>762.40</u>

To: Allied Oil & Gas Services, 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) 303.47

TOTAL CHARGES 9,630.38

DISCOUNT 20/50 2550.04 IF PAID IN 30 DAYS

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

SIGNATURE Keith Loebe

# ALLIED OIL & GAS SERVICES, LLC 0569

Federal Tax I.I

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

SERVICE POINT: Russell

DATE <u>5-21-12</u>	SEC <u>20</u>	TWP. <u>7</u>	RANGE <u>17</u>	CALLED OUT	ON LOCATION	JOB START	JOB FINISH
LEASE <u>10 Franchises</u>		WELL # <u>A-3</u>		LOCATION <u>Station 12 to 14 mile</u>		COUNTY <u>Russell</u>	STATE <u>KS</u>
OLD OR <u>NEW</u> (Circle one)							

CONTRACTOR WCO

TYPE OF JOB Plugging

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

CASING SIZE 5 1/2" DEPTH \_\_\_\_\_

TUBING SIZE 2 3/4" DEPTH \_\_\_\_\_

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

TOOL \_\_\_\_\_ DEPTH 2400

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

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

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

PERFS. 3200-10 3200-95

DISPLACEMENT 9 bbl

OWNER \_\_\_\_\_

CEMENT AMOUNT ORDERED 100 yd Class A

COMMON <u>100 yd</u>	@	<u>16.25</u>	<u>1625</u>
POZMIX _____	@		
GEL _____	@		
CHLORIDE _____	@		
ASC _____	@		
_____	@		
_____	@		
_____	@		
_____	@		
_____	@		
_____	@		
_____	@		
_____	@		
HANDLING <u>115</u>	@	<u>2.25</u>	<u>258</u>
MILEAGE <u>420</u>	@	<u>.15</u>	<u>63</u>
TOTAL			<u>1746</u>

**EQUIPMENT**

PUMP TRUCK # 414 CEMENTER John  
HELPER Jimmy

BULK TRUCK # 410 DRIVER Leah

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

**REMARKS:**

200 Packer & 3700 test flow, 50 Packer & 3332 test flow to Halls Hole, (Hect rate & 3124 - 1000 - 30 min, sud packer for 4000 & 3213 manual production with 10-bbl charge. 9 bbl, prepared & filled hole. Packer 2.5" (2.5" dia) 2 1/2" (3.125" dia), manual charge 100 yd; cement from 1200 Halls, 300 yd in 10000 well & 900 yd - 10000 bbl

xHanks!

**SERVICE**

DEPTH OF JOB \_\_\_\_\_ 1050'

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

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

MILEAGE 420 @ 7.12 2990

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

1/2 MN @ 40 20

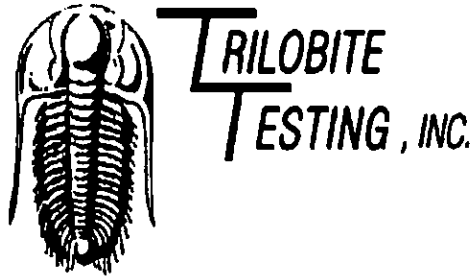
3/2 MN @ 240 720

CHARGE TO: Tengas Co

STREET \_\_\_\_\_

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

TOTAL 1625



## DRILL STEM TEST REPORT

Prepared For: **Tengasco Inc**

PO Box 458  
Hays KS 67601

ATTN: Rod Tremblay

**KU Endowment A #3**

**30-7s-17w Rooks,KS**

Start Date: 2012.05.09 @ 01:53:17

End Date: 2012.05.09 @ 07:47:47

Job Ticket #: 44788                      DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.05.16 @ 13:21:27

Tengasco Inc 30-7s-17w Rooks,KS KU Endowment A #3 DST # 1 Topeka 2012.05.09



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Tengasco Inc  
PO Box 458  
Hays KS 67601  
ATTN: Rod Tremblay

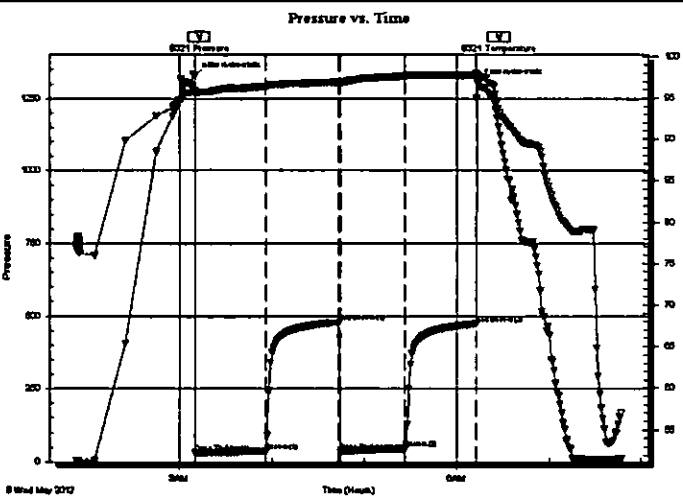
**30-7s-17w Rooks,KS**  
**KU Endowment A #3**  
Job Ticket: 44788      DST#: 1  
Test Start: 2012.05.09 @ 01:53:17

### GENERAL INFORMATION:

Formation: **Topeka**  
Deviated: No Whipstock:                      ft (KB)  
Time Tool Opened: 03:10:17  
Time Test Ended: 07:47:47  
Interval: **2730.00 ft (KB) To 2747.00 ft (KB) (TVD)**  
Total Depth: **2747.00 ft (KB) (TVD)**  
Hole Diameter: **7.88 inches** Hole Condition: Good  
Reference Elevations: **1780.00 ft (KB)**  
**1773.00 ft (CF)**  
KB to GR/CF: **7.00 ft**

Serial #: **8321**      Inside  
Press@RunDepth: **44.80 psig @ 2731.00 ft (KB)**  
Start Date: **2012.05.09**      End Date: **2012.05.09**  
Start Time: **01:53:18**      End Time: **07:46:47**  
Capacity: **8000.00 psig**  
Last Calib.: **2012.05.09**  
Time On Btrn: **2012.05.09 @ 03:09:47**  
Time Off Btrn: **2012.05.09 @ 06:13:17**

TEST COMMENT: IFF-Weak blow built to 3 in  
ISI-Dead no blow back  
FFP-Weak blow built to 1 in  
FSI-Dead no blow back



### PRESSURE SUMMARY

Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
0	1329.13	95.85	Initial Hydro-static
1	31.58	95.61	Open To Flow (1)
46	36.16	96.40	Shut-In(1)
94	479.53	96.90	End Shut-In(1)
95	36.69	96.80	Open To Flow (2)
137	44.80	97.66	Shut-In(2)
183	473.19	97.73	End Shut-In(2)
184	1305.02	97.70	Final Hydro-static

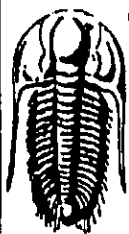
### Recovery

Length (ft)	Description	Volume (bbl)
6.00	MW 20%M 80%W	0.08
6.00	WN 40%W 60%M	0.08

### Gas Rates

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





**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Tengasco Inc

30-7s-17w Rooks, KS

PO Box 458  
Hays KS 67601

**KU Endowment A #3**

Job Ticket: 44788      DST#: 1

ATTN: Rod Tremblay

Test Start: 2012.05.09 @ 01:53:17

### GENERAL INFORMATION:

Formation: **Topeka**

Deviated: No Whipstock:                    ft (KB)

Time Tool Opened: 03:10:17

Time Test Ended: 07:47:47

Test Type: Conventional Bottom Hole (Initial)

Tester: Jeff Brown

Unit No: 44

Interval: 2730.00 ft (KB) To 2747.00 ft (KB) (TVD)

Reference Elevations: 1780.00 ft (KB)

Total Depth: 2747.00 ft (KB) (TVD)

1773.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 7.00 ft

Serial #: 8737      Outside

Press@RunDepth:            psig @ 2731.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.05.09      End Date: 2012.05.09

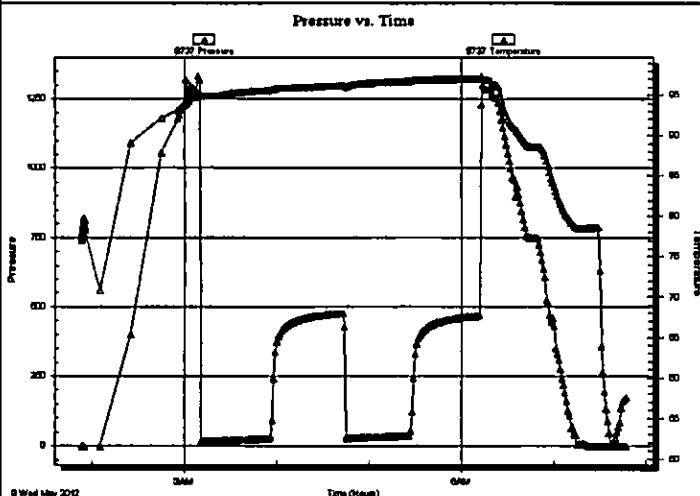
Last Calib.: 2012.05.09

Start Time: 01:53:15      End Time: 07:46:44

Time On Btm:

Time Off Btm:

TEST COMMENT: IFF-Weak blow built to 3 in  
ISI-Dead no blow back  
FFP-Weak blow built to 1 in  
FSI-Dead no blow back



### PRESSURE SUMMARY

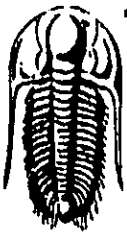
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

### Recovery

Length (ft)	Description	Volume (bbl)
6.00	MW 20%M 80%W	0.08
6.00	WN 40%W 60%M	0.08

### Gas Rates

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



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Tengasco Inc  
PO Box 458  
Hays KS 67601  
ATTN: Rod Tremblay

**30-7s-17w Rooks,KS**  
**KU Endowment A #3**  
Job Ticket: 44788      DST#: 1  
Test Start: 2012.05.09 @ 01:53:17

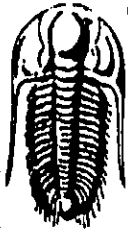
### Tool Information

Drill Pipe:	Length: 2714.00 ft	Diameter: 3.80 inches	Volume: 38.07 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 2000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 50000.00 lb
			<u>Total Volume: 38.07 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial 46000.00 lb
Depth to Top Packer:	2730.00 ft			Final 46000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	17.00 ft			
Tool Length:	45.00 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			2703.00	
Shut In Tool	5.00			2708.00	
Hydraulic tool	5.00			2713.00	
Jars	5.00			2718.00	
Safety Joint	3.00			2721.00	
Packer	4.00			2725.00	28.00      Bottom Of Top Packer
Packer	5.00			2730.00	
Stubb	1.00			2731.00	
Recorder	0.00	8321	Inside	2731.00	
Recorder	0.00	8737	Outside	2731.00	
Perforations	13.00			2744.00	
Bullnose	3.00			2747.00	17.00      Bottom Packers & Anchor

**Total Tool Length: 45.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Tengasco Inc

30-7s-17w Rooks,KS

PO Box 458  
Hays KS 67601

**KU Endowment A #3**

Job Ticket: 44788

DST#: 1

ATTN: Rod Tremblay

Test Start: 2012.05.09 @ 01:53:17

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: sec/qt

Cushion Volume:

bbl

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

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
6.00	MW 20%M 80%W	0.084
6.00	WN 40%W 60%M	0.084

Total Length: 12.00 ft

Total Volume: 0.168 bbl

Num Fluid Samples: 0

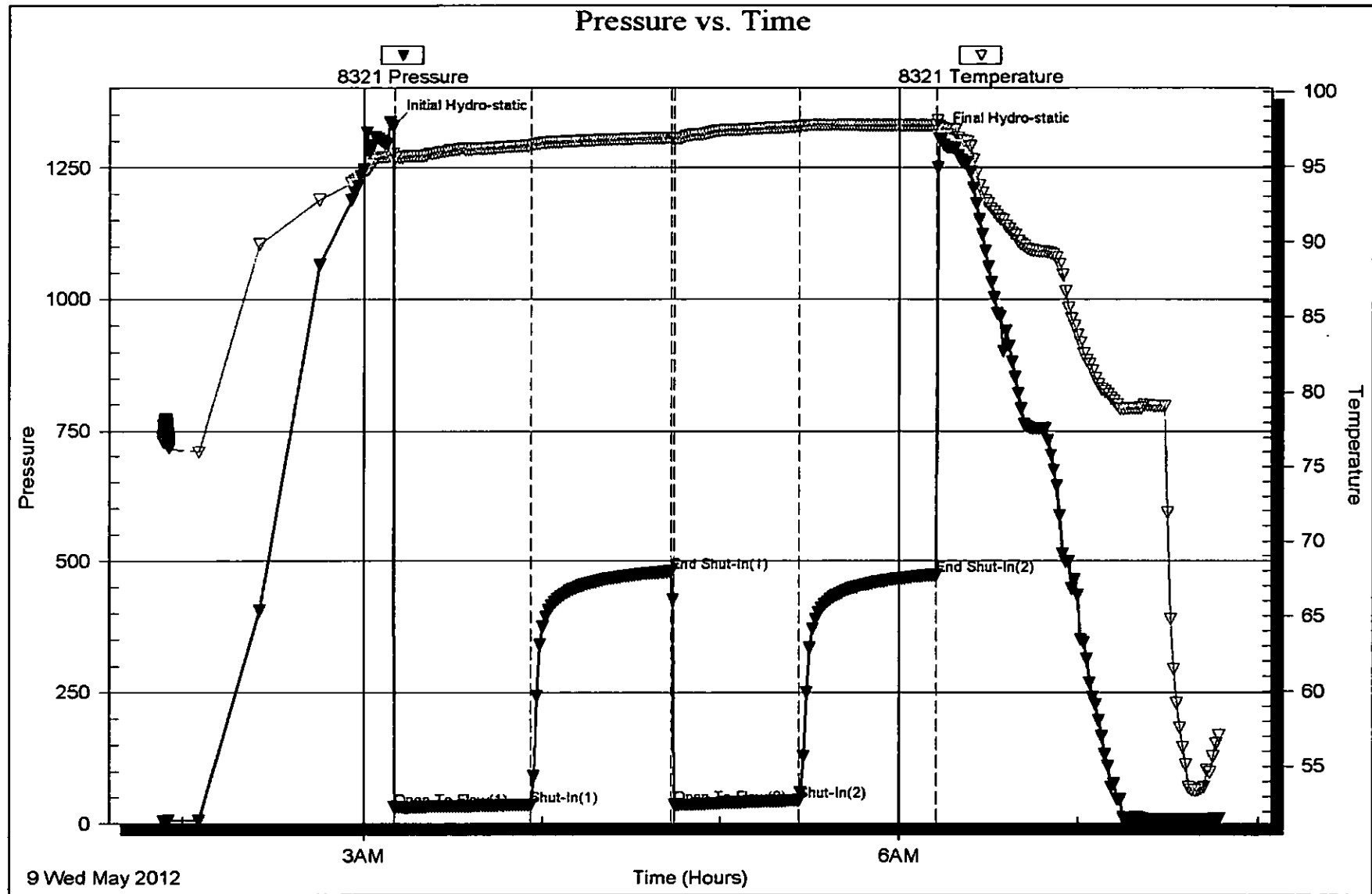
Num Gas Bombs: 0

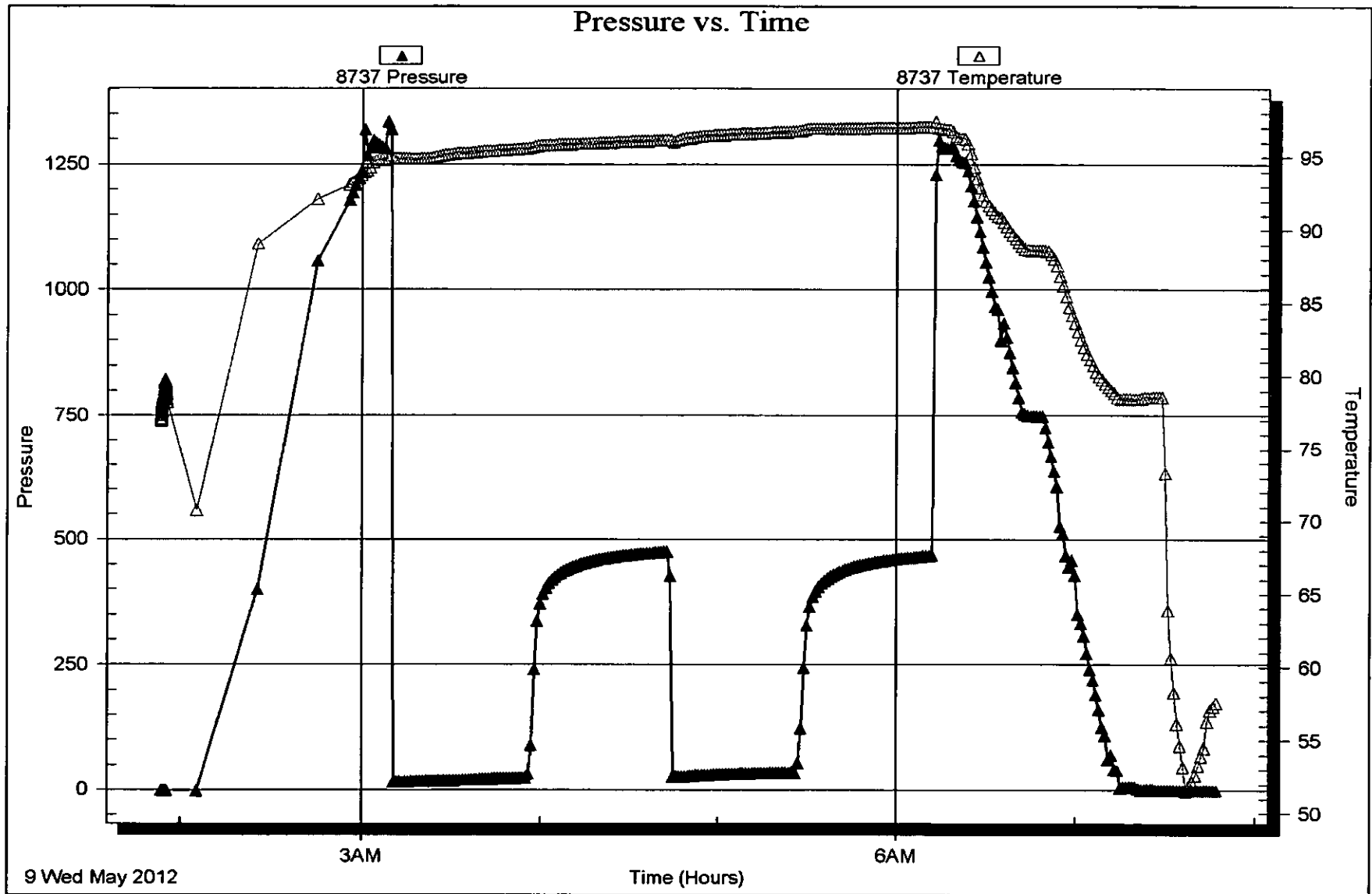
Serial #:

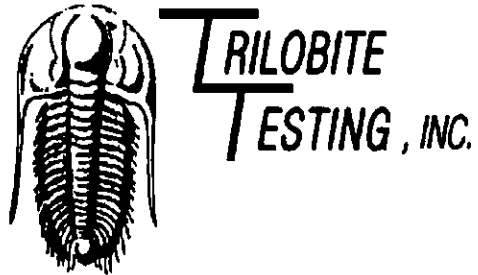
Laboratory Name:

Laboratory Location:

Recovery Comments:







## DRILL STEM TEST REPORT

Prepared For: **Tengasco Inc**

PO Box 458  
Hays KS 67601

ATTN: Rod Tremblay

**KU Endowment A #3**

**30-7s-17w Rooks,KS**

Start Date: 2012.05.10 @ 08:39:21

End Date: 2012.05.10 @ 15:00:51

Job Ticket #: 44789                      DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.05.16 @ 13:20:40

Tengasco Inc

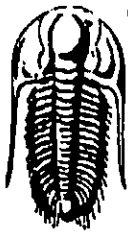
30-7s-17w Rooks,KS

KU Endowment A #3

DST # 2

Lansing-G

2012.05.10



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Tengasco Inc

30-7s-17w Rooks,KS

PO Box 458  
Hays KS 67601

KU Endowment A #3

Job Ticket: 44789

DST#: 2

ATTN: Rod Tremblay

Test Start: 2012.05.10 @ 08:39:21

### GENERAL INFORMATION:

Formation: **Lansing-G**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:08:51

Time Test Ended: 15:00:51

Test Type: Conventional Bottom Hole (Reset)

Tester: Jeff Brown

Unit No: 44

Interval: 3039.00 ft (KB) To 3060.00 ft (KB) (TVD)

Reference Elevations: 1780.00 ft (KB)

Total Depth: 3060.00 ft (KB) (TVD)

1773.00 ft (CF)

Hole Diameter: 7.88 Inches Hole Condition: Good

KB to GR/CF: 7.00 ft

Serial #: 8321

Inside

Press@RunDepth: 30.02 psig @ 3040.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.05.10

End Date:

2012.05.10

Last Calib.:

2012.05.10

Start Time: 08:39:22

End Time:

14:59:51

Time On Btm:

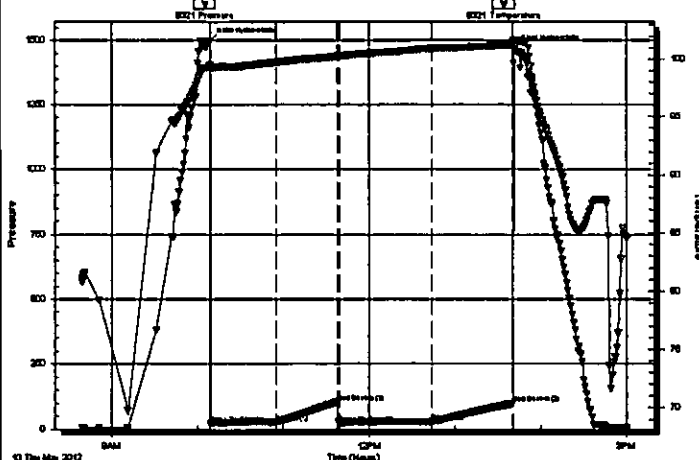
2012.05.10 @ 10:08:21

Time Off Btm:

2012.05.10 @ 13:41:21

TEST COMMENT: IFF-Weak blow built to 2 in  
IS-Dead no blow back  
FFP-Weak blow built to 2 1/2 in  
FS-Dead no blow back

Pressure vs. Time



### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1497.44	99.48	Initial Hydro-static
1	21.07	99.21	Open To Flow (1)
47	26.26	99.75	Shut-in(1)
90	104.56	100.25	End Shut-in(1)
91	21.67	100.33	Open To Flow (2)
156	30.02	100.94	Shut-in(2)
212	98.74	101.28	End Shut-in(2)
213	1467.76	101.67	Final Hydro-static

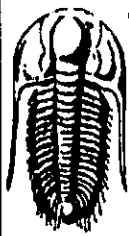
### Recovery

Length (ft)	Description	Volume (bbl)
30.00	VSOCM 3% O 97% M	0.42

\* Recovery from multiple tests

### Gas Rates

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



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Tengasco Inc  
 PO Box 458  
 Hays KS 67601  
 ATTN: Rod Tremblay

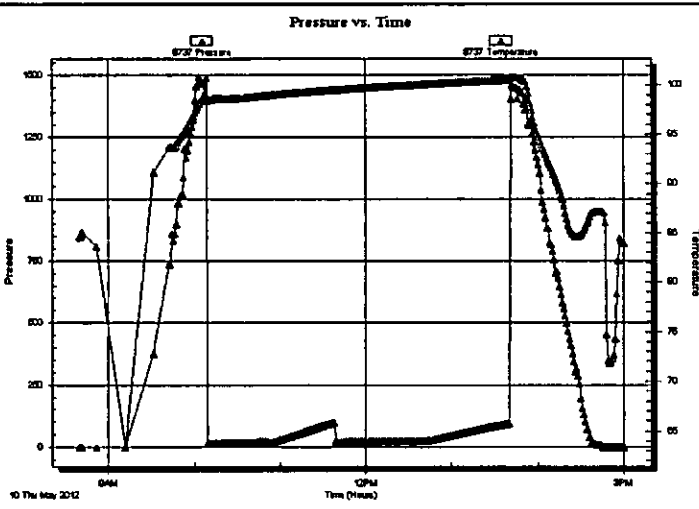
**30-7s-17w Rooks,KS**  
**KU Endowment A #3**  
 Job Ticket: 44789 **DST#: 2**  
 Test Start: 2012.05.10 @ 08:39:21

## GENERAL INFORMATION:

Formation: **Lansing-G**  
 Deviated: **No** Whipstock: **ft (KB)** Test Type: **Conventional Bottom Hole (Reset)**  
 Time Tool Opened: 10:08:51 Tester: **Jeff Brown**  
 Time Test Ended: 15:00:51 Unit No: **44**  
 Interval: **3039.00 ft (KB) To 3060.00 ft (KB) (TVD)** Reference Elevations: **1780.00 ft (KB)**  
 Total Depth: **3060.00 ft (KB) (TVD)** **1773.00 ft (CF)**  
 Hole Diameter: **7.88 inches** Hole Condition: **Good** KB to GR/CF: **7.00 ft**

**Serial #: 8737** **Outside**  
 Press@RunDepth: **psig @ 3040.00 ft (KB)** Capacity: **8000.00 psig**  
 Start Date: **2012.05.10** End Date: **2012.05.10** Last Calib.: **2012.05.10**  
 Start Time: **08:39:38** End Time: **15:00:07** Time On Btm:   
 Time Off Btm:

**TEST COMMENT:** IFF-Weak blow built to 2 in  
 IS-Dead no blow back  
 FFP-Weak blow built to 2 1/2 in  
 FSI-Dead no blow back



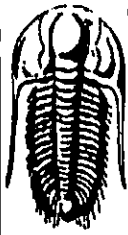
PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery		
Length (ft)	Description	Volume (bbl)
30.00	VSOCM 3%O 97%M	0.42

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

\* Recovery from multiple tests





**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Tengasco Inc

30-7s-17w Rooks,KS

PO Box 458  
Hays KS 67601

**KU Endowment A #3**

Job Ticket: 44789

DST#: 2

ATTN: Rod Tremblay

Test Start: 2012.05.10 @ 08:39:21

### Tool Information

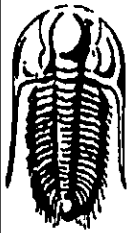
Drill Pipe:	Length: 3028.00 ft	Diameter: 3.80 inches	Volume: 42.47 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 42.47 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	17.00 ft			String Weight: Initial 51000.00 lb
Depth to Top Packer:	3039.00 ft			Final 51000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	21.00 ft			
Tool Length:	49.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

### Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3012.00	
Shut In Tool	5.00			3017.00	
Hydraulic tool	5.00			3022.00	
Jars	5.00			3027.00	
Safety Joint	3.00			3030.00	
Packer	4.00			3034.00	28.00 Bottom Of Top Packer
Packer	5.00			3039.00	
Stubb	1.00			3040.00	
Recorder	0.00	8321	Inside	3040.00	
Recorder	0.00	8737	Outside	3040.00	
Perforations	17.00			3057.00	
Bullnose	3.00			3060.00	21.00 Bottom Packers & Anchor

**Total Tool Length: 49.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Tengasco Inc

**30-7s-17w Rooks,KS**

PO Box 458  
Hays KS 67601

**KU Endowment A #3**

Job Ticket: 44789

**DST#: 2**

ATTN: Rod Tremblay

Test Start: 2012.05.10 @ 08:39:21

## 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: 56.00 sec/qt

Cushion Volume:

bbf

Water Loss: 6.39 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1800.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbf
30.00	VSOCM 3%O 97%M	0.421

Total Length: 30.00 ft

Total Volume: 0.421 bbf

Num Fluid Samples: 0

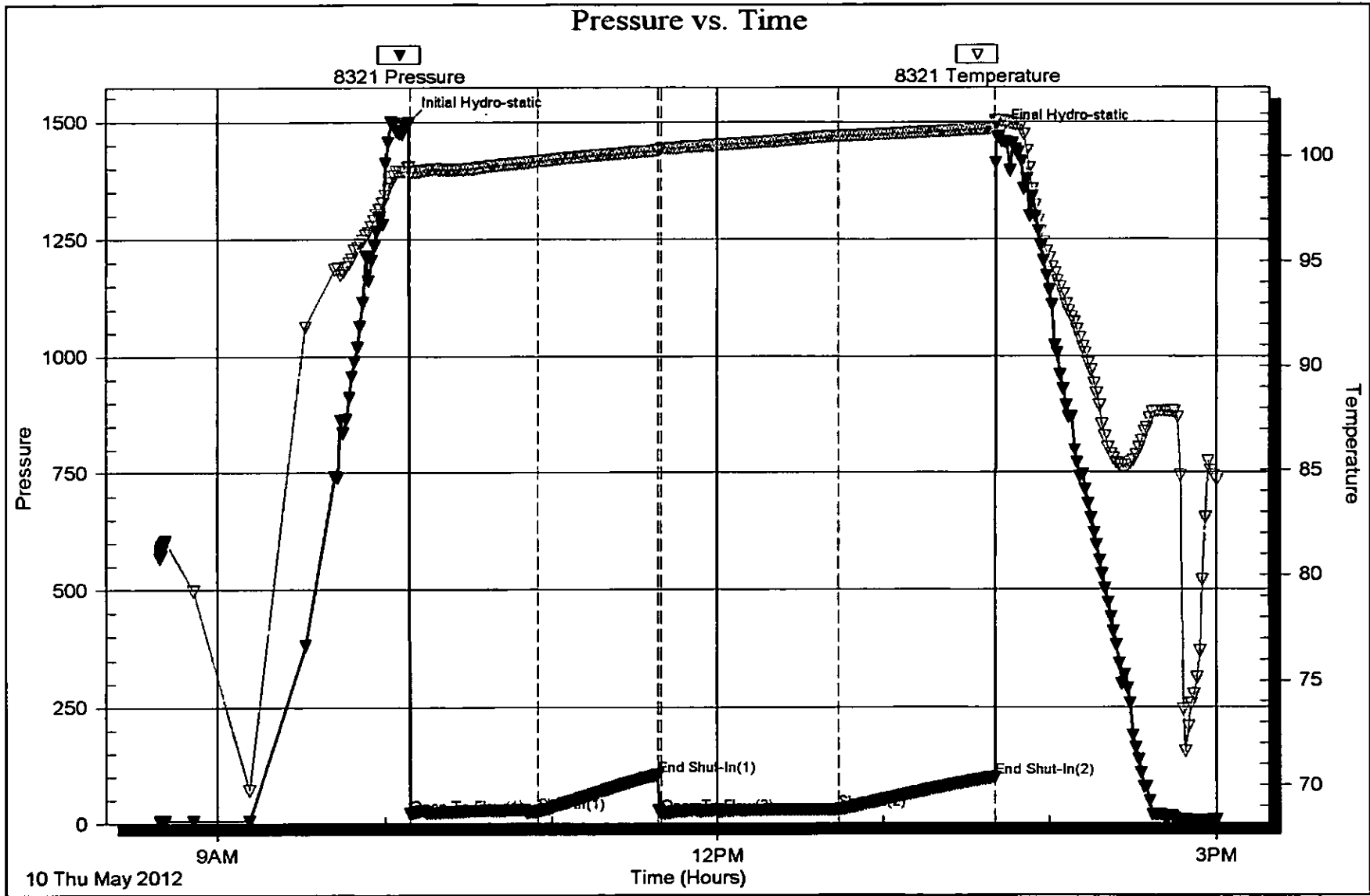
Num Gas Bombs: 0

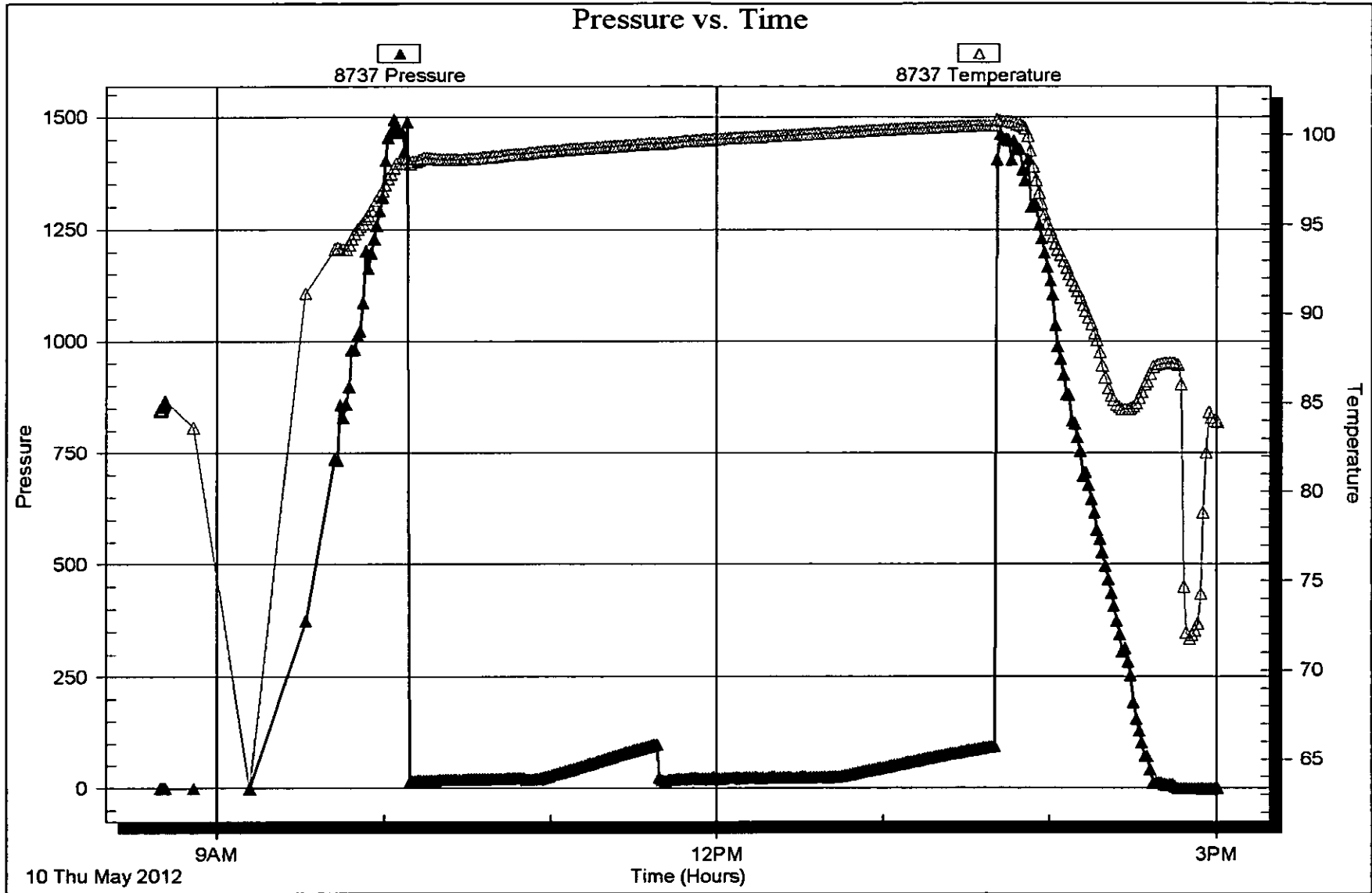
Serial #:

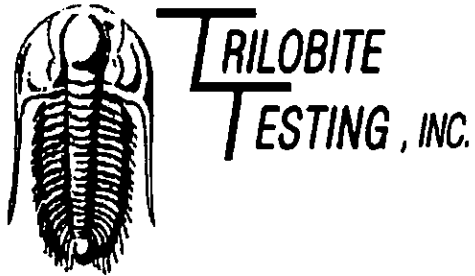
Laboratory Name:

Laboratory Location:

Recovery Comments:







## DRILL STEM TEST REPORT

Prepared For: **Tengasco Inc**

PO Box 458  
Hays KS 67601

ATTN: Rod Tremblay

**KU Endowment A #3**

**30-7s-17w Rooks,KS**

Start Date: 2012.05.11 @ 13:33:03

End Date: 2012.05.11 @ 19:54:03

Job Ticket #: 44790                      DST #: 3

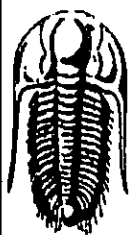
Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.05.16 @ 13:19:43

Tengasco Inc 30-7s-17w Rooks,KS KU Endowment A #3 DST # 3 Arbuckle 2012.05.11



**TRILOBITE TESTING, INC.**

## DRILL STEM TEST REPORT

Tengasco Inc

**30-7s-17w Rooks, KS**

PO Box 458  
Hays KS 67601

**KU Endowment A #3**

Job Ticket: 44790 **DST#: 3**

ATTN: Rod Tremblay

Test Start: 2012.05.11 @ 13:33:03

### GENERAL INFORMATION:

Formation: **Arbuckle**

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

Time Tool Opened: 15:18:03

Time Test Ended: 19:54:03

Test Type: **Conventional Bottom Hole (Reset)**

Tester: **Jeff Brown**

Unit No: **44**

Interval: **3242.00 ft (KB) To 3280.00 ft (KB) (TVD)**

Reference Elevations: **1780.00 ft (KB)**

Total Depth: **3280.00 ft (KB) (TVD)**

**1773.00 ft (CF)**

Hole Diameter: **7.88 inches** Hole Condition: **Good**

KB to GR/CF: **7.00 ft**

**Serial #: 8321**

**Inside**

Press@RunDepth: **30.05 psig @ 3245.00 ft (KB)**

Capacity: **8000.00 psig**

Start Date: **2012.05.11**

End Date:

**2012.05.11**

Last Calib.: **2012.05.11**

Start Time: **13:33:04**

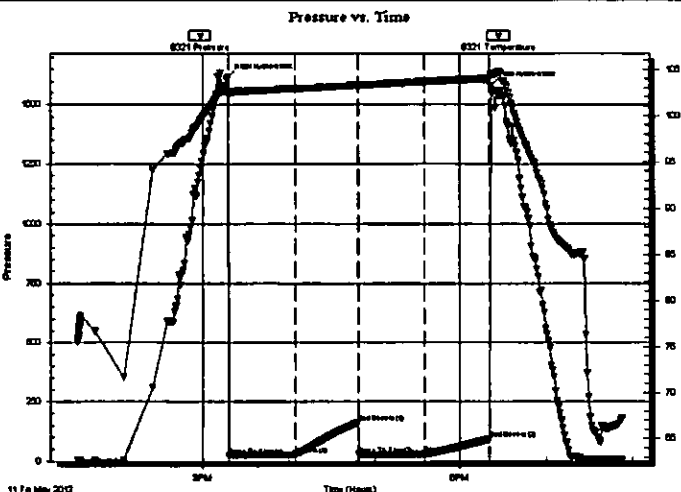
End Time:

**19:53:03**

Time On Btrr: **2012.05.11 @ 15:17:33**

Time Off Btrr: **2012.05.11 @ 18:21:33**

**TEST COMMENT:** FFP-Weak blow built to 1 3/4 in  
ISI-Dead no blow back  
FFP-Weak blow built to 1/4 in  
FSI-Dead no blow back



### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1613.21	102.68	Initial Hydro-static
1	24.08	102.40	Open To Flow (1)
47	29.46	102.93	Shut-In(1)
91	162.09	103.30	End Shut-In(1)
91	29.28	103.28	Open To Flow (2)
138	30.05	103.69	Shut-In(2)
183	91.14	104.01	End Shut-In(2)
184	1582.05	104.40	Final Hydro-static

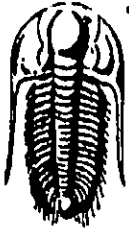
### Recovery

Length (ft)	Description	Volume (bbl)
10.00	OCM 10%O 90%M	0.14
5.00	Oil 100%	0.07

\* Recovery from multiple tests

### Gas Rates

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



# TRILOBITE TESTING, INC

## DRILL STEM TEST REPORT

Tengasco Inc  
 PO Box 458  
 Hays KS 67601  
 ATTN: Rod Tremblay

30-7s-17w Rooks,KS  
 KU Endowment A #3  
 Job Ticket: 44790      DST#: 3  
 Test Start: 2012.05.11 @ 13:33:03

### GENERAL INFORMATION:

Formation: **Arbuckle**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 15:18:03  
 Time Test Ended: 19:54:03

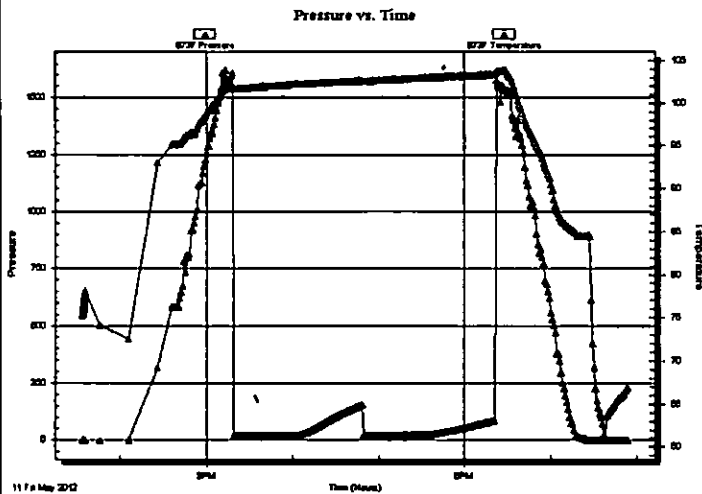
Test Type: Conventional Bottom Hole (Reset)  
 Tester: Jeff Brown  
 Unit No: 44

Interval: 3242.00 ft (KB) To 3280.00 ft (KB) (TVD)  
 Total Depth: 3280.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 1780.00 ft (KB)  
 1773.00 ft (CF)  
 KB to GR/CF: 7.00 ft

**Serial #: 8737      Outside**  
 Press@RunDepth:      psig @      3245.00 ft (KB)      Capacity:      8000.00 psig  
 Start Date:      2012.05.11      End Date:      2012.05.11      Last Calib.:      2012.05.11  
 Start Time:      13:33:53      End Time:      19:53:52      Time On Btm  
 Time Off Btm

**TEST COMMENT:** IFP-Weak blow built to 1 3/4 in  
 IS-Dead no blow back  
 FFP-Weak blow built to 1/4 in  
 FS-Dead no blow back



### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

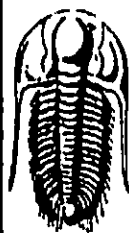
### Recovery

Length (ft)	Description	Volume (bbl)
10.00	OCM 10% O 90% M	0.14
5.00	Oil 100%	0.07

\* Recovery from multiple tests

### Gas Rates

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



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Tengasco Inc

**30-7s-17w Rooks,KS**

PO Box 458  
Hays KS 67601

**KU Endowment A #3**

Job Ticket: 44790

**DST#: 3**

ATTN: Rod Tremblay

Test Start: 2012.05.11 @ 13:33:03

### Tool Information

Drill Pipe:	Length: 3246.00 ft	Diameter: 3.80 inches	Volume: 45.53 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 22000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 45.53 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	32.00 ft			String Weight: Initial 54000.00 lb
Depth to Top Packer:	3242.00 ft			Final 54000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	38.00 ft			
Tool Length:	66.00 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			3215.00	
Shut in Tool	5.00			3220.00	
Hydraulic tool	5.00			3225.00	
Jars	5.00			3230.00	
Safety Joint	3.00			3233.00	
Packer	4.00			3237.00	28.00 Bottom Of Top Packer
Packer	5.00			3242.00	
Stubb	1.00			3243.00	
Perforations	2.00			3245.00	
Recorder	0.00	8321	Inside	3245.00	
Recorder	0.00	8737	Outside	3245.00	
Perforations	32.00			3277.00	
Bullnose	3.00			3280.00	38.00 Bottom Packers & Anchor

**Total Tool Length: 66.00**





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

## DRILL STEM TEST REPORT

FLUID SUMMARY

Tengasco Inc

30-7s-17w Rooks,KS

PO Box 458  
Hays KS 67601

KU Endowment A #3

Job Ticket: 44790

DST#: 3

ATTN: Rod Tremblay

Test Start: 2012.05.11 @ 13:33:03

### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

26 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbf

Water Loss: 7.19 in<sup>3</sup>

Gas Cushion Type:

Gas Cushion Pressure:

psig

Resistivity: ohm.m

Salinity: 2400.00 ppm

Filter Cake: inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbf
10.00	OCM 10%O 90%M	0.140
5.00	Oil 100%	0.070

Total Length: 15.00 ft      Total Volume: 0.210 bbf

Num Fluid Samples: 0

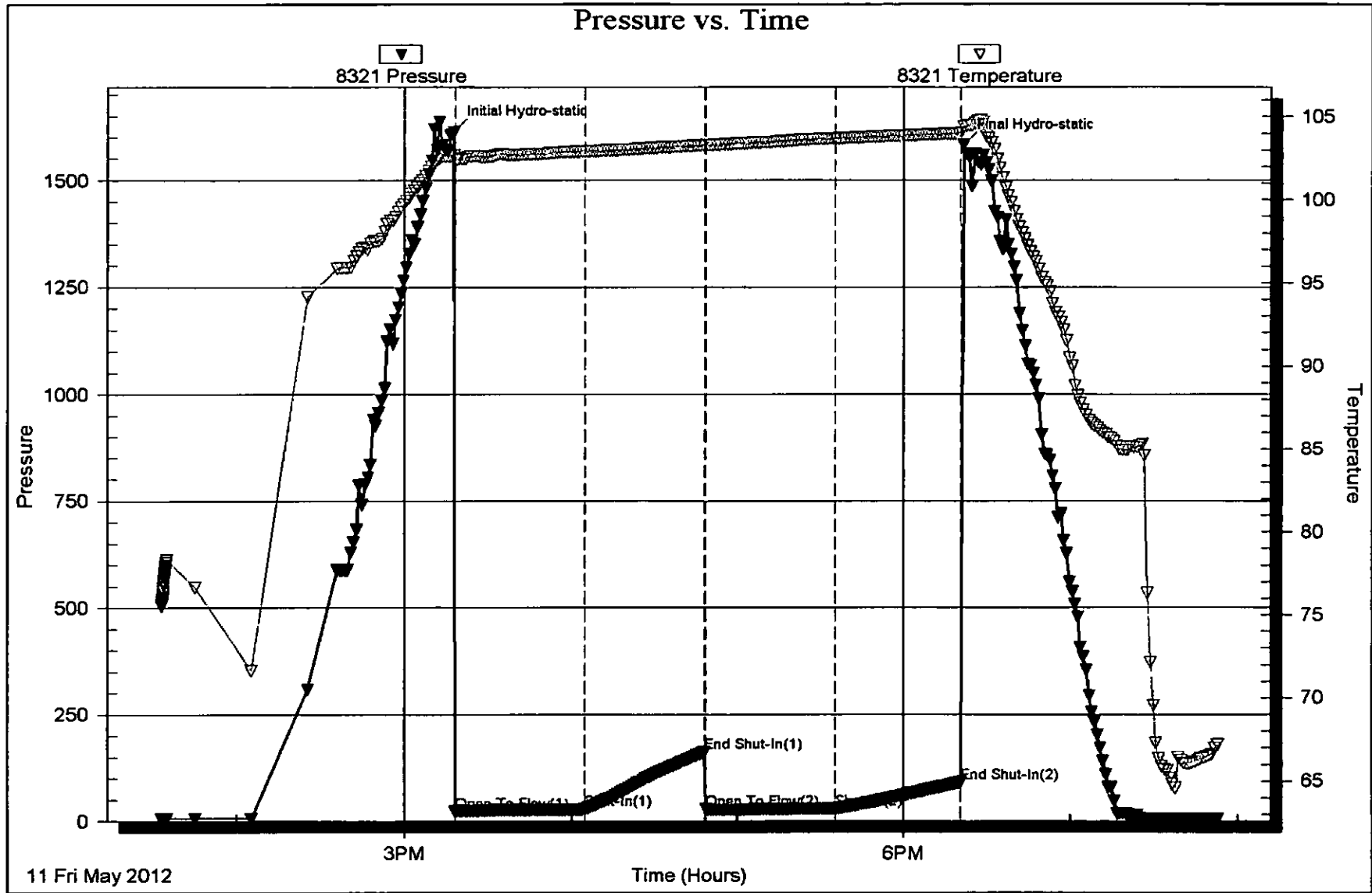
Num Gas Bombs: 0

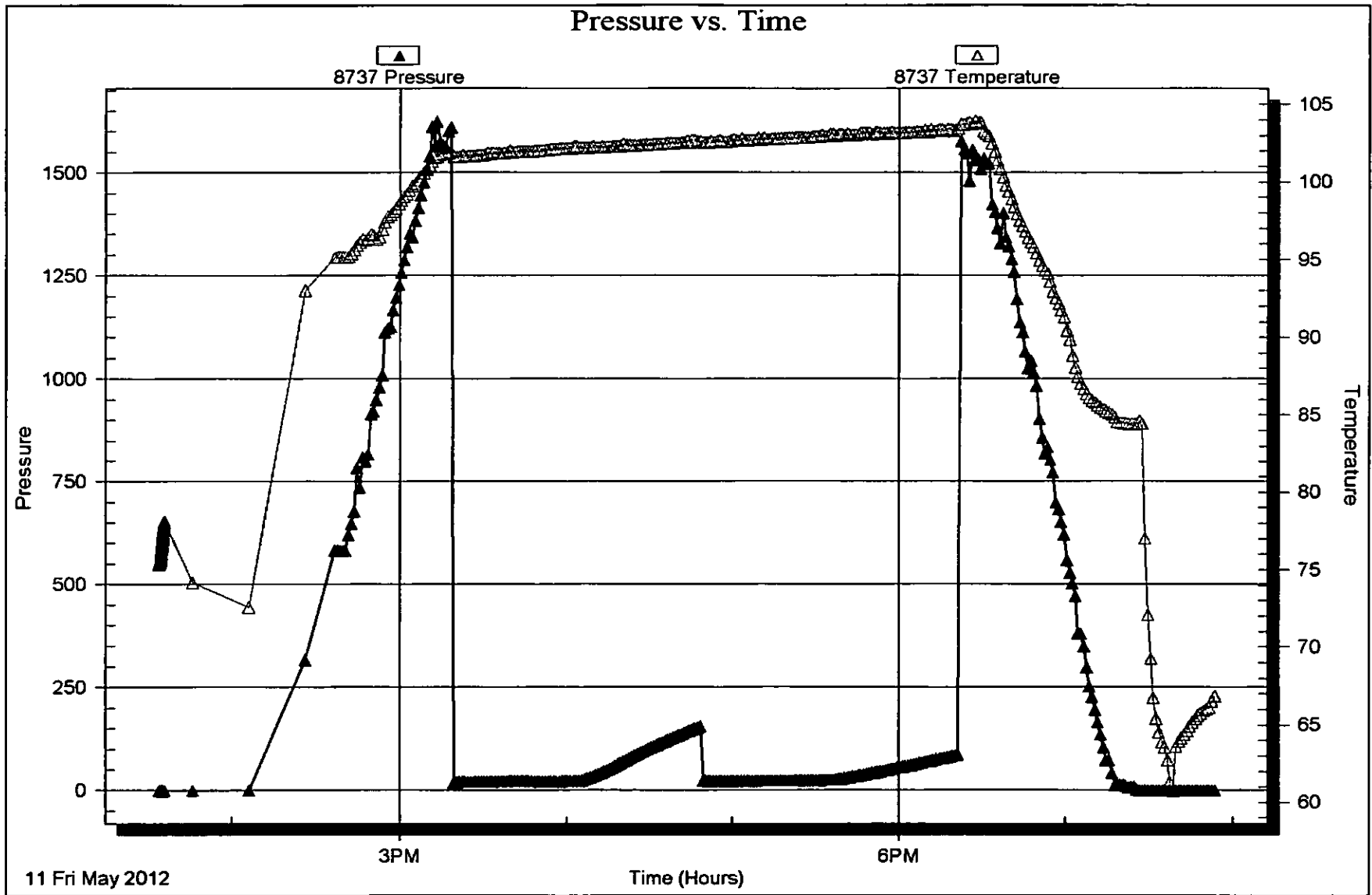
Serial #:

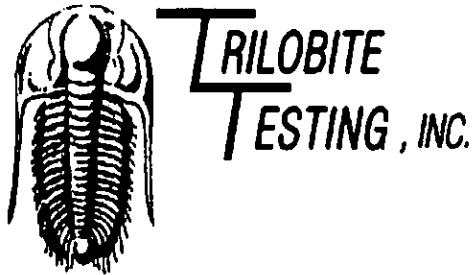
Laboratory Name:

Laboratory Location:

Recovery Comments:







## DRILL STEM TEST REPORT

Prepared For: **Tengasco Inc**

PO Box 458  
Hays KS 67601

ATTN: Rod Tremblay

**KU Endowment A #3**

**30-7s-17w Rooks,KS**

Start Date: 2012.05.12 @ 14:10:14

End Date: 2012.05.12 @ 20:20:44

Job Ticket #: 44791                      DST #: 4

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.05.16 @ 13:13:18

Tengasco Inc  
30-7s-17w Rooks,KS  
KU Endowment A #3  
DST # 4  
Abuchie  
2012.05.12



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Tengasco Inc  
PO Box 458  
Hays KS 67601  
ATTN: Rod Tremblay

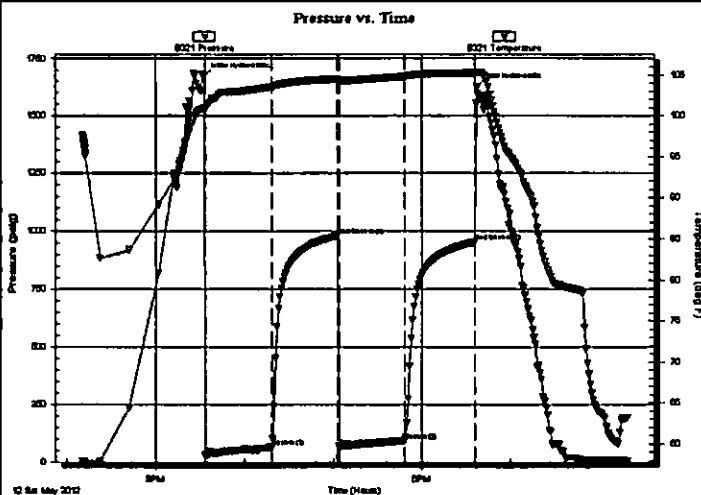
**30-7s-17w Rooks,KS**  
**KU Endowment A #3**  
Job Ticket: 44791      DST#: 4  
Test Start: 2012.05.12 @ 14:10:14

### GENERAL INFORMATION:

Formation: **Abuckle**  
Deviated: No Whipstock:                      ft (KB)  
Time Tool Opened: 15:33:14  
Time Test Ended: 20:20:44  
Interval: **3275.00 ft (KB) To 3316.00 ft (KB) (TVD)**  
Total Depth: **3369.00 ft (KB) (TVD)**  
Hole Diameter: **7.88 inches** Hole Condition: **Good**  
Test Type: **Conventional Straddle (Reset)**  
Tester: **Jeff Brown**  
Unit No: **44**  
Reference Elevations: **1780.00 ft (KB)**  
**1773.00 ft (CF)**  
KB to GR/CF: **7.00 ft**

**Serial #: 8321      Inside**  
Press@RunDepth: **92.45 psig @ 3279.00 ft (KB)**      Capacity: **8000.00 psig**  
Start Date: **2012.05.12**      End Date: **2012.05.12**      Last Calib.: **2012.05.12**  
Start Time: **14:10:15**      End Time: **20:18:44**      Time On Btm: **2012.05.12 @ 15:32:44**  
Time Off Btm: **2012.05.12 @ 18:37:14**

**TEST COMMENT:** IFF-Good blow built to 10 3/4 in  
ISI-Dead no blow back  
FFP-Fair blow built to 7 1/4 in  
FSI-Dead no blow back



### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1672.93	100.96	Initial Hydro-static
1	29.88	100.74	Open To Flow (1)
46	64.10	103.52	Shut-In(1)
90	981.30	104.46	End Shut-In(1)
91	67.53	104.30	Open To Flow (2)
136	92.45	104.81	Shut-In(2)
183	954.17	105.24	End Shut-In(2)
185	1626.96	105.32	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
93.00	VSOCM 5%O 95%M	1.30
52.00	OCWM 10%O 10%W 80%M	0.73
10.00	Oil 100%	0.14

\* Recovery from multiple tests

### Gas Rates

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



**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

Tengasco Inc  
 PO Box 458  
 Hays KS 67601  
 ATTN: Rod Tremblay

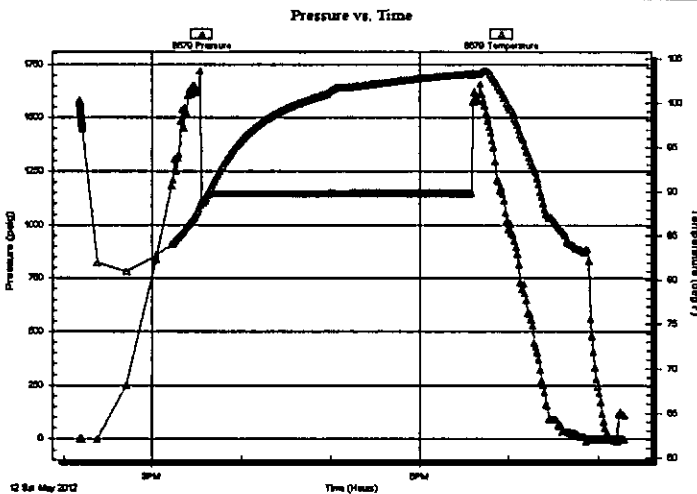
**30-7s-17w Rooks,KS**  
**KU Endowment A #3**  
 Job Ticket: 44791      **DST#: 4**  
 Test Start: 2012.05.12 @ 14:10:14

**GENERAL INFORMATION:**

Formation: **Abuckle**  
 Deviated: No Whipstock:                      ft (KB)  
 Time Tool Opened: 15:33:14  
 Time Test Ended: 20:20:44  
 Interval: **3275.00 ft (KB) To 3316.00 ft (KB) (TVD)**  
 Total Depth: **3369.00 ft (KB) (TVD)**  
 Hole Diameter: **7.88 inches** Hole Condition: **Good**  
 Test Type: **Conventional Straddle (Reset)**  
 Tester: **Jeff Brown**  
 Unit No: **44**  
 Reference Elevations: **1780.00 ft (KB)**  
    **1773.00 ft (CF)**  
 KB to GR/CF: **7.00 ft**

**Serial #: 8679      Below (Straddle)**  
 Press@RunDepth:                      psig @ **3319.00 ft (KB)**  
 Start Date: **2012.05.12**                  End Date: **2012.05.12**  
 Start Time: **14:10:31**                  End Time: **20:18:00**  
 Capacity: **8000.00 psig**  
 Last Calib.: **2012.05.12**  
 Time On Btm:  
 Time Off Btm:

**TEST COMMENT:** IFF-Good blow built to 10 3/4 in  
 IS-Dead no blow back  
 FFP-Fair blow built to 7 1/4 in  
 FS-Dead no blow back



**PRESSURE SUMMARY**

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

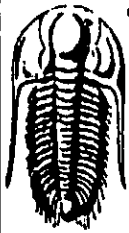
**Recovery**

Length (ft)	Description	Volume (bbl)
93.00	VSOCM 5%O 95%M	1.30
52.00	OCWM 10%O 10%W 80%M	0.73
10.00	Oil 100%	0.14

\* Recovery from multiple tests

**Gas Rates**

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



**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

Tengasco Inc  
PO Box 458  
Hays KS 67601  
ATTN: Rod Tremblay

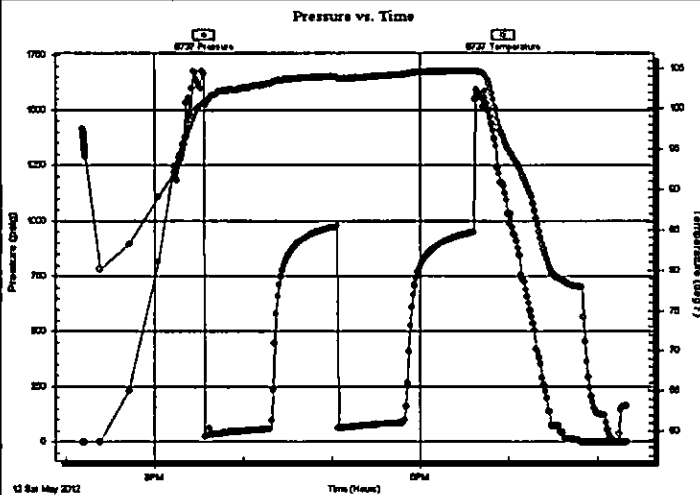
30-7s-17w Rooks,KS  
**KU Endowment A #3**  
Job Ticket: 44791      DST#: 4  
Test Start: 2012.05.12 @ 14:10:14

**GENERAL INFORMATION:**

Formation: **Abuckle**  
 Deviated: **No Whipstock:**                      ft (KB)  
 Time Tool Opened: 15:33:14  
 Time Test Ended: 20:20:44  
 Interval: **3275.00 ft (KB) To 3316.00 ft (KB) (TVD)**  
 Total Depth: **3369.00 ft (KB) (TVD)**  
 Hole Diameter: **7.88 inches** Hole Condition: **Good**  
 Test Type: **Conventional Straddle (Reset)**  
 Tester: **Jeff Brown**  
 Unit No: **44**  
 Reference Elevations: **1780.00 ft (KB)**  
    **1773.00 ft (CF)**  
 KB to GR/CF: **7.00 ft**

**Serial #: 8737      Outside**  
 Press@RunDepth:                      psig @ **3279.00 ft (KB)**  
 Start Date:                      2012.05.12      End Date:                      2012.05.12      Capacity:                      8000.00 psig  
 Start Time:                      14:10:54      End Time:                      20:19:23      Last Calib.:                      2012.05.12  
    Time On Btrm  
    Time Off Btrm

**TEST COMMENT:** IFF-Good blow built to 10 3/4 in  
 IS-Dead no blow back  
 FFP-Fair blow built to 7 1/4 in  
 FS-Dead no blow back



**PRESSURE SUMMARY**

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

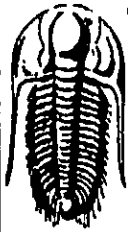
**Recovery**

Length (ft)	Description	Volume (bbl)
93.00	VSOCM 5%O 95%M	1.30
52.00	OCWM 10%O 10%W 80%M	0.73
10.00	OIL 100%	0.14

\* Recovery from multiple tests

**Gas Rates**

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



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Tengasco Inc

30-7s-17w Rooks,KS

PO Box 458  
Hays KS 67601

**KU Endowment A #3**

Job Ticket: 44791

DST#: 4

ATTN: Rod Tremblay

Test Start: 2012.05.12 @ 14:10:14

### Tool Information

Drill Pipe:	Length: 3277.00 ft	Diameter: 3.80 inches	Volume: 45.97 bbl	Tool Weight: 2400.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 24000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 45.97 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 54000.00 lb
Depth to Top Packer:	3275.00 ft			Final 55000.00 lb
Depth to Bottom Packer:	3316.00 ft			
Interval between Packers:	41.00 ft			
Tool Length:	122.00 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			3248.00	
Shut In Tool	5.00			3253.00	
Hydraulic tool	5.00			3258.00	
Jars	5.00			3263.00	
Safety Joint	3.00			3266.00	
Packer	4.00			3270.00	28.00 Bottom Of Top Packer
Packer	5.00			3275.00	
Stubb	1.00			3276.00	
Perforations	2.00			3278.00	
Change Over Sub	1.00			3279.00	
Recorder	0.00	8321	Inside	3279.00	
Recorder	0.00	8737	Outside	3279.00	
Drill Pipe	30.00			3309.00	
Change Over Sub	1.00			3310.00	
Perforations	2.00			3312.00	
Blank Off Sub	1.00			3313.00	
Stubb	3.00			3316.00	41.00 Tool Interval
Packer	1.00			3317.00	
Stubb	1.00			3318.00	
Change Over Sub	1.00			3319.00	
Recorder	0.00	8679	Below	3319.00	
Drill Pipe	31.00			3350.00	
Change Over Sub	1.00			3351.00	
Perforations	15.00			3366.00	
Bullnose	3.00			3369.00	53.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>122.00</b>				





**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

**FLUID SUMMARY**

Tengasco Inc

30-7s-17w Rooks,KS

PO Box 458  
Hays KS 67601

**KU Endowment A #3**

Job Ticket: 44791

**DST#: 4**

ATTN: Rod Tremblay

Test Start: 2012.05.12 @ 14:10:14

### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

21 deg API

Mud Weight: 9.00 lb/gal

Cushion Length: ft

Water Salinity: ppm

Viscosity: 55.00 sec/qt

Cushion Volume: bbl

Water Loss: 7.19 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure: psig

Salinity: 2400.00 ppm

Filter Cake: inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
93.00	VSOCM 5%O 95%M	1.305
52.00	OCWM 10%O 10%W 80%M	0.729
10.00	Oil 100%	0.140

Total Length: 155.00 ft      Total Volume: 2.174 bbl

Num Fluid Samples: 0

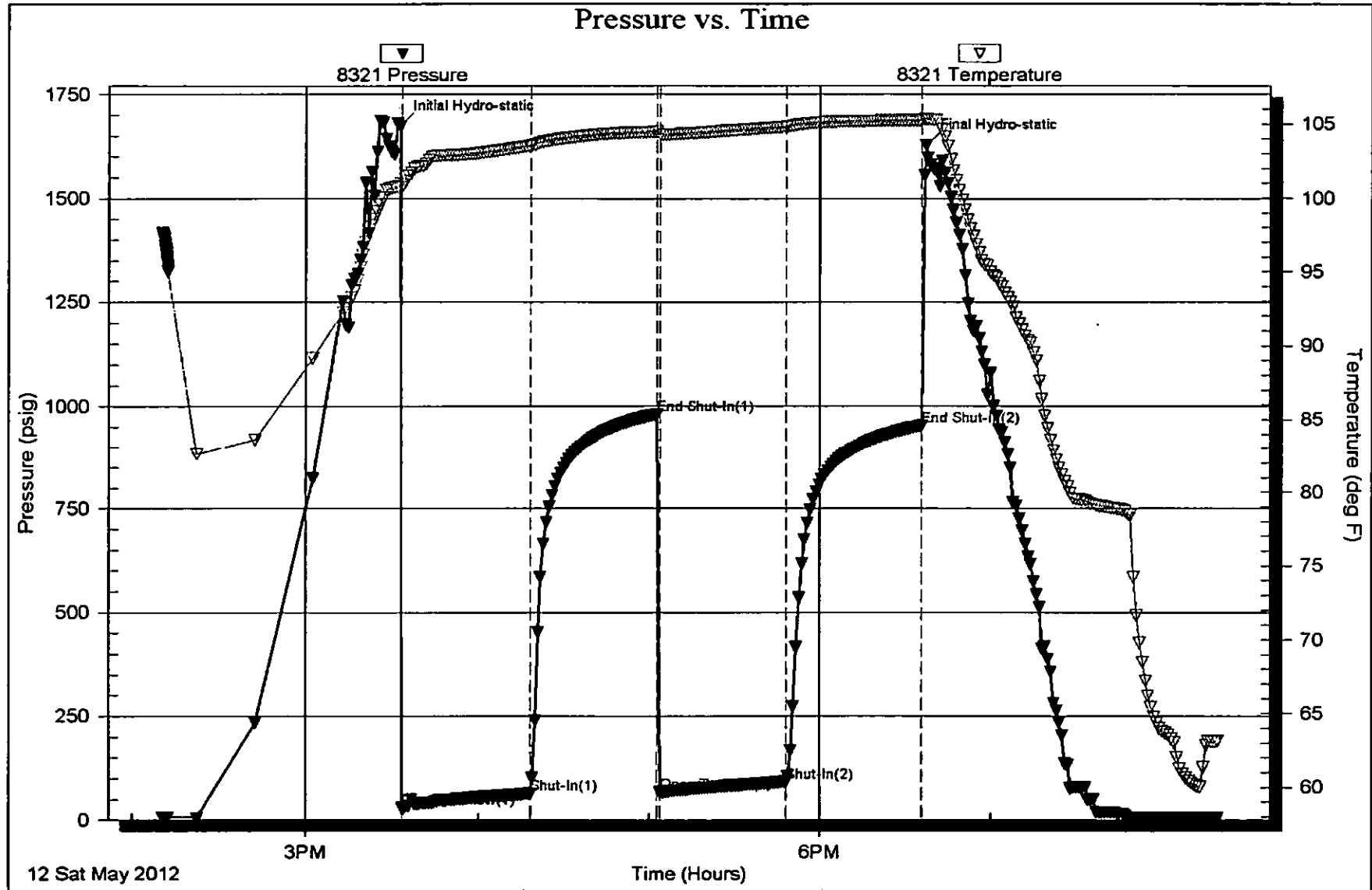
Num Gas Bombs: 0

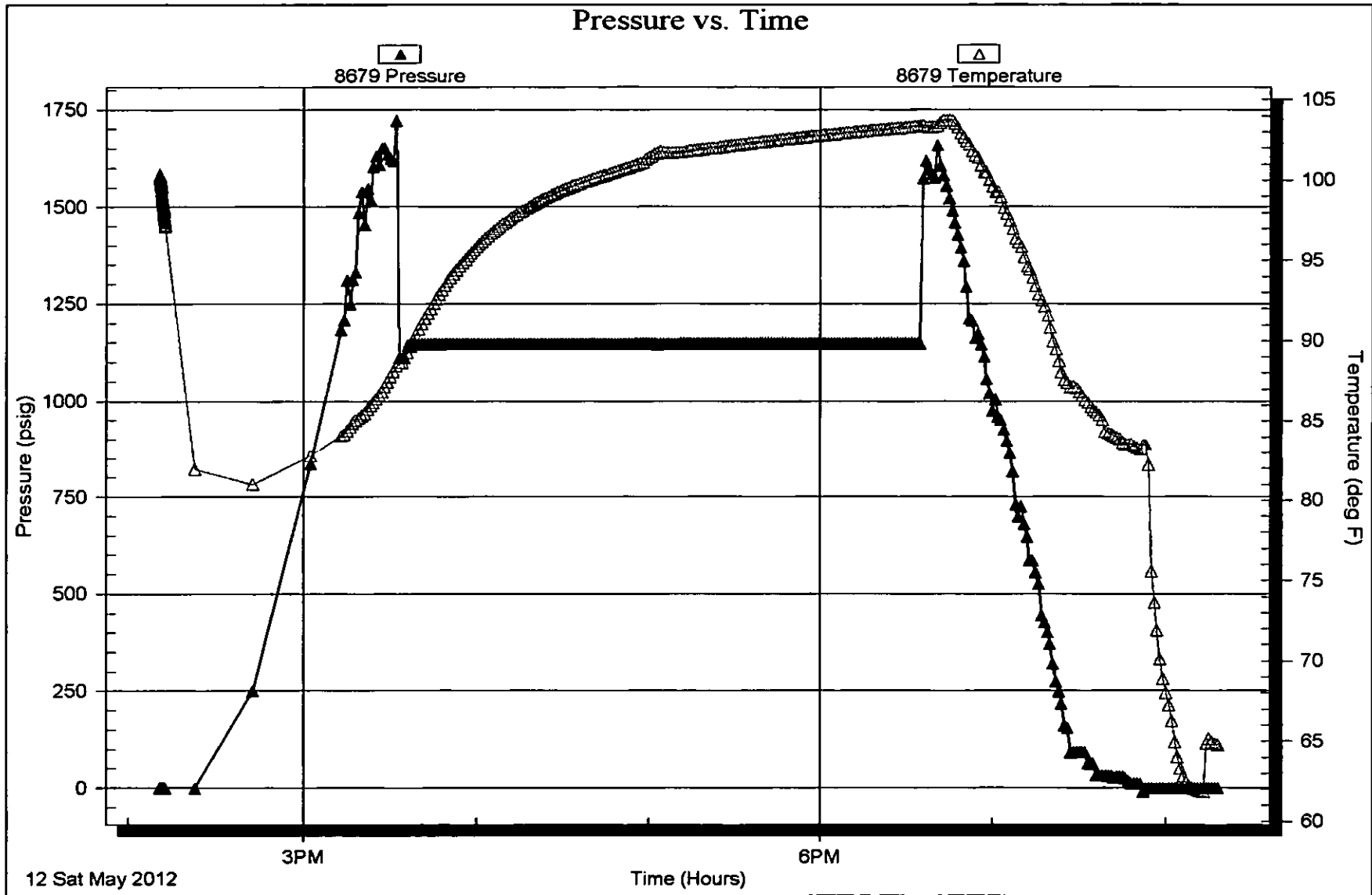
Serial #:

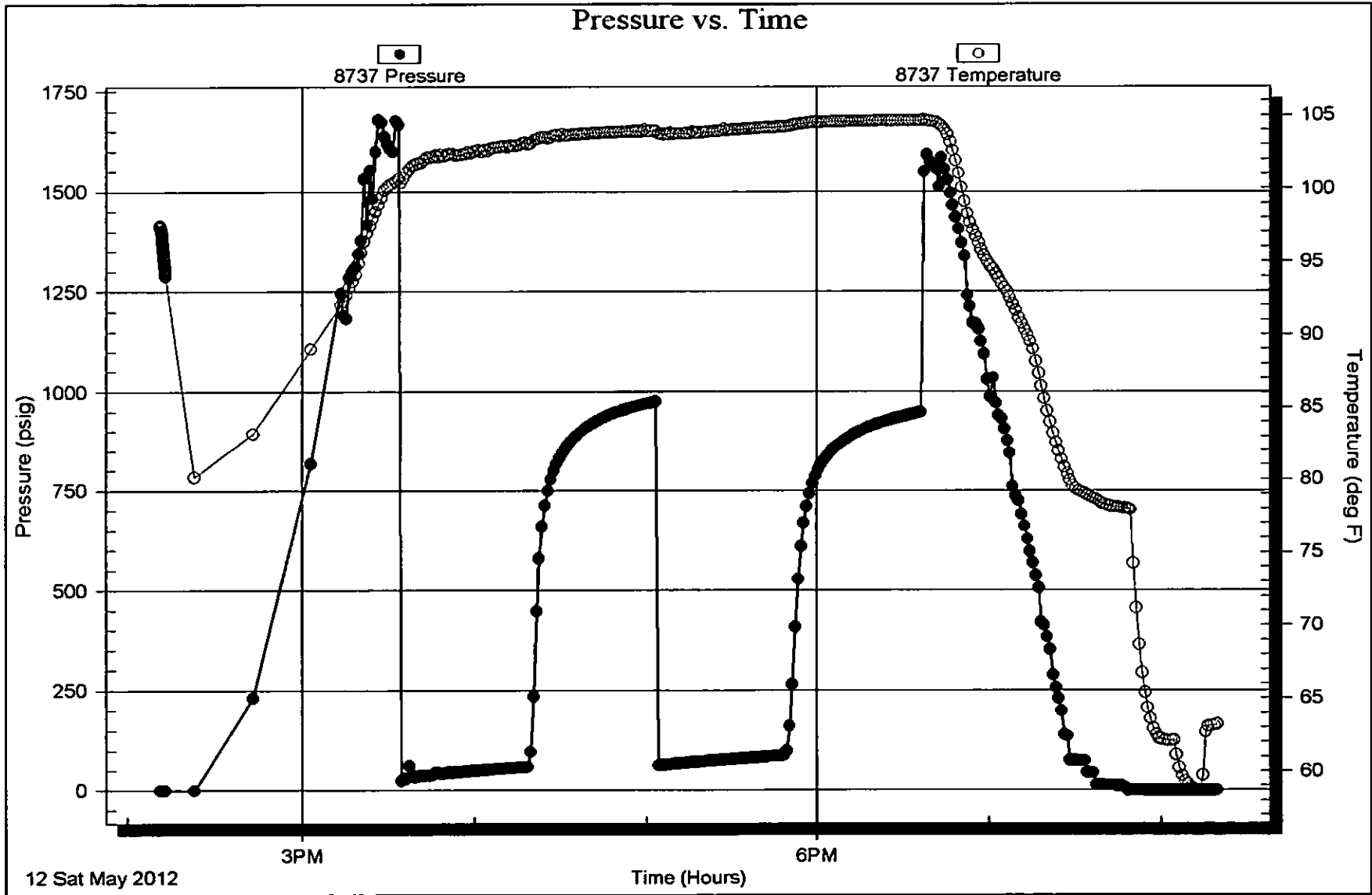
Laboratory Name:

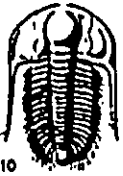
Laboratory Location:

Recovery Comments:









# TRIOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

## Test Ticket

NO. 44788

Well Name & No. K4 Endowment A #3 Test No. 1 Date 5-9-12  
 Company Tengas Co Inc Elevation 1790 KB 1783 GL  
 Address 1327 Noose RD Pobox 458 Hays KS 67601  
 Co. Rep / Geo. Mike Bair Rig American Eagle #2  
 Location: Sec. 30 Twp. 7 S Rge. 17 W Co. Rooks State KS

Interval Tested 2730-2747 Zone Tested TOROKA  
 Anchor Length 17 Drill Pipe Run 2714 Mud Wt. 9.3  
 Top Packer Depth 2725 Drill Collars Run 0 Vis 29  
 Bottom Packer Depth 2730 Wt. Pipe Run 0 WL  
 Total Depth 2747 Chlorides 63000 ppm System LCM

Blow Description IF-Weak Blow Built TO 3 IN  
IF-Dead NO Blow Back  
FF-Weak Blow Built TO 1 IN  
FF-Dead NO Blow Back

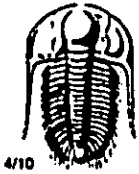
Rec	Feet of	%gas	%oil	%water	%mud
<u>4</u>	<u>MW</u>			<u>80%</u>	<u>20%</u>
<u>4</u>	<u>WM</u>			<u>40%</u>	<u>60%</u>

Rec Total 12 BHT 98 Gravity \_\_\_\_\_ API RW 304 @ 45.1 °F Chlorides 37,000 ppm

(A) Initial Hydrostatic 1329  Test \_\_\_\_\_ T-On Location 1:23  
 (B) First Initial Flow 32  Jars 250 \_\_\_\_\_ T-Started 1:53  
 (C) First Final Flow 36  Safety Joint 75 \_\_\_\_\_ T-Open 3:11  
 (D) Initial Shut-In 480  Circ Sub \_\_\_\_\_ T-Pulled 6:11  
 (E) Second Initial Flow 37  Hourly Standby \_\_\_\_\_ T-Out 7:47  
 (F) Second Final Flow 45  Mileage 84 130.20 RT \_\_\_\_\_ Comments \_\_\_\_\_  
 (G) Final Shut-In 473  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1305  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_  
 Day Standby \_\_\_\_\_  
 Accessibility \_\_\_\_\_

Initial Open 45  
 Initial Shut-In 45  
 Final Flow 45  
 Final Shut-In 45  
 Sub Total 1605.20  
 Total 1605.20  
 MP/DST Disc't \_\_\_\_\_  
 Approved By \_\_\_\_\_ Our Representative Jeff Brown

Triobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



# TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

## Test Ticket

NO. 44789

Well Name & No. K4 Endowment A #3 Test No. 2 Date 5-10-12  
 Company Tengas CO INC Elevation 1790 KB 1783 GL  
 Address PO Box 458 Hays KS 67601  
 Co. Rep / Geo. Mike Blair Rig American Eagle #2  
 Location: Sec. 30 Twp. 7S Rge. 17W Co. Rooks State KS

Interval Tested 3039 - 3060 Zone Tested Lansing-G  
 Anchor Length 21 Drill Pipe Run 3028 Mud Wt. 8.9  
 Top Packer Depth 3034 Drill Collars Run 0 Vis 56  
 Bottom Packer Depth 3039 Wt. Pipe Run 0 WL 64  
 Total Depth 3060 Chlorides 1800 ppm System LCM 1

Blow Description FF-Weak Blow Built to 2 IN  
ISI-Dead No Blow Back  
FF-Weak Blow Built to 2 1/2 IN  
ISI-Dead No Blow Back

Rec	Feet of	%gas	%oil	%water	%mud
<u>30</u>	<u>USOC m</u>		<u>3%</u>		<u>97%</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

\*Rec Total 30 BHT 101 Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic 1497  Test \_\_\_\_\_ T-On Location 7:43  
 (B) First Initial Flow 21  Jars 250 \_\_\_\_\_ T-Started 8:39  
 (C) First Final Flow 26  Safety Joint 75 \_\_\_\_\_ T-Open 10:10  
 (D) Initial Shut-In 105  Circ Sub \_\_\_\_\_ T-Pulled 13:40  
 (E) Second Initial Flow 22  Hourly Standby \_\_\_\_\_ T-Out 15:00  
 (F) Second Final Flow 30  Mileage 130.20 \_\_\_\_\_ Comments \_\_\_\_\_  
 (G) Final Shut-In 99  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1468  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_ Sub Total 0  
 Day Standby \_\_\_\_\_ Total 1605.20  
 Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Sub Total 1605.20

Approved By \_\_\_\_\_ Our Representative Jeff Brown

Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



# TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

## Test Ticket

NO. 44790

Well Name & No. K4 Endowment A #3 Test No. 3 Date 5-11-12  
 Company Tenger Co INC Elevation 1790 KB 1783 GL  
 Address PO Box 458 Hays 67601  
 Co. Rep / Geo. Mike Bair Rig American Eagle #2  
 Location: Sec. 30 Twp. 7s Rge. 17W Co. Rooks State KS

Interval Tested 3242-3280 Zone Tested ARBuckle  
 Anchor Length 38 Drill Pipe Run 3240 Mud Wt. 9.4  
 Top Packer Depth 3237 Drill Collars Run 0 Vis 54  
 Bottom Packer Depth 3242 Wt. Pipe Run 0 WL 7.2  
 Total Depth 3280 Chlorides 2400 ppm System LCM 3

Blow Description IF - Weak Blow Built To 1 3/4 IN  
1st - Dead No Blow Back  
IF - Weak Blow Built To 1/4  
1st - Dead NO Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>10</u>	<u>OCM</u>	<u>10</u>	<u>10</u>	<u>90</u>	<u>90</u>
<u>5</u>	<u>Oil</u>	<u>100</u>	<u>100</u>		

Rec Total 15 BHT 104 Gravity 22.0 API RW @ °F Chlorides ppm

- (A) Initial Hydrostatic 11613
- (B) First Initial Flow 24
- (C) First Final Flow 29
- (D) Initial Shut-In 1162
- (E) Second Initial Flow 29
- (F) Second Final Flow 30
- (G) Final Shut-In 91
- (H) Final Hydrostatic 1582

- Test
  - Jars 250
  - Safety Joint 75
  - Circ Sub
  - Hourly Standby
  - Mileage 130.20
  - Sampler
  - Straddle
  - Shale Packer
  - Extra Packer
  - Extra Recorder
  - Day Standby
  - Accessibility
- Sub Total 1605.20

T-On Location 13:15  
 T-Started 13:33  
 T-Open 15:20  
 T-Pulled 18:20  
 T-Out 19:54

Comments \_\_\_\_\_  
 Ruined Shale Packer  
 Ruined Packer  
 Extra Copies  
 Sub Total 0  
 Total 1605.20  
 MP/DST Disc't \_\_\_\_\_

Initial Open 45  
 Initial Shut-In 45  
 Final Flow 45  
 Final Shut-In 45

Approved By \_\_\_\_\_ Our Representative Jeff Brown

Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



# TRIOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

## Test Ticket

NO. 44791

Well Name & No. KY Endowment A #3 Test No. 4 Date 5-12-12  
 Company Texas CO INC Elevation 1790 KB 1783 GL  
 Address PO Box 458 Hays La 76001  
 Co. Rep / Geo. Mike Bair Rig American Eagle #2  
 Location: Sec. 30 Twp. 7S Rge. 17W Co. Rooks State KS

Interval Tested 3275-3316 Zone Tested ARBUCKLE  
 Anchor Length 41-Anchor 53-Tail Drill Pipe Run 3277 Mud Wt. 9.3  
 Top Packer Depth 3270 Drill Collars Run D Vis 55  
 Bottom Packer Depth 3275 Wt. Pipe Run D WL 7.2  
 Total Depth 3369 Chlorides 2400 ppm System LCM 3

Blow Description FR. GOOD BLOW BUILT TO 10 3/4 IN  
FR. Dead No Blow Back  
FR. Fair Blow Built To 7 1/4  
FR. Dead No Blow Back

Rec	Feet of	%gas	%oil	%water	%mud
<u>93</u>	<u>SOCM</u>	<u>5</u>	<u>5</u>	<u>95</u>	<u>95</u>
<u>52</u>	<u>OC WM</u>	<u>10</u>	<u>10</u>	<u>10</u>	<u>80</u>
<u>10</u>	<u>Oil</u>	<u>100</u>	<u>100</u>		

Rec Total 155 BHT 105 Gravity 21 API RW 261 @ 64.3 °F Chlorides 28000 ppm

(A) Initial Hydrostatic 12073  Test 1150 T-On Location 11:53  
 (B) First Initial Flow 30  Jars 250 T-Started 14:10  
 (C) First Final Flow 204  Safety Joint 75 T-Open 15:35  
 (D) Initial Shut-In 981  Circ Sub T-Pulled 18:35  
 (E) Second Initial Flow 208  Hourly Standby T-Out 20:20  
 (F) Second Final Flow 92  Mileage 130.20 Comments \_\_\_\_\_  
 (G) Final Shut-In 954  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 12027  Straddle 600  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_

Initial Open 45  
 Initial Shut-In 45  
 Final Flow 45  
 Final Shut-In 45  
 Extra Recorder \_\_\_\_\_  
 Day Standby \_\_\_\_\_  
 Accessibility \_\_\_\_\_  
 Sub Total \_\_\_\_\_  
 Sub Total \_\_\_\_\_

Approved By \_\_\_\_\_ Our Representative Jeff Brown

Triobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made; or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.