



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

OPERATOR: License # \_\_\_\_\_

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

Address 1: \_\_\_\_\_

Address 2: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ + \_\_\_\_\_

Contact Person: \_\_\_\_\_

Phone: ( \_\_\_\_\_ ) \_\_\_\_\_

CONTRACTOR: License # \_\_\_\_\_

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

Wellsite Geologist: \_\_\_\_\_

Purchaser: \_\_\_\_\_

Designate Type of Completion:

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

If Workover/Re-entry: Old Well Info as follows:

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

Well Name: \_\_\_\_\_

Original Comp. Date: \_\_\_\_\_ Original Total Depth: \_\_\_\_\_

- Deepening       Re-perf.       Conv. to ENHR       Conv. to SWD
- Conv. to GSW
- Plug Back: \_\_\_\_\_ Plug Back Total Depth \_\_\_\_\_
- Commingled      Permit #: \_\_\_\_\_
- Dual Completion      Permit #: \_\_\_\_\_
- SWD      Permit #: \_\_\_\_\_
- ENHR      Permit #: \_\_\_\_\_
- GSW      Permit #: \_\_\_\_\_

Spud Date or Recompletion Date      Date Reached TD      Completion Date or Recompletion Date

API No. 15 - \_\_\_\_\_

Spot Description: \_\_\_\_\_

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

\_\_\_\_\_ Feet from  North /  South Line of Section

\_\_\_\_\_ Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE       NW       SE       SW

County: \_\_\_\_\_

Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Field Name: \_\_\_\_\_

Producing Formation: \_\_\_\_\_

Elevation: Ground: \_\_\_\_\_ Kelly Bushing: \_\_\_\_\_

Total Depth: \_\_\_\_\_ Plug Back Total Depth: \_\_\_\_\_

Amount of Surface Pipe Set and Cemented at: \_\_\_\_\_ 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: \_\_\_\_\_ ppm Fluid volume: \_\_\_\_\_ bbls

Dewatering method used: \_\_\_\_\_

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

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

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

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

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

**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: \_\_\_\_\_ Date: \_\_\_\_\_



1084999

Operator Name: \_\_\_\_\_ Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West County: \_\_\_\_\_

**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 type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No  Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Submitted Electronically <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i>  List All E. Logs Run:	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
_____ Perforate _____ Protect Casing _____ Plug Back TD _____ Plug Off Zone				

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

TUBING RECORD:      Size: \_\_\_\_\_ Set At: \_\_\_\_\_ Packer At: \_\_\_\_\_ Liner Run:  Yes  No

Date of First, Resumed Production, SWD or ENHR. \_\_\_\_\_ Producing Method:  
 Flowing    Pumping    Gas Lift    Other (Explain) \_\_\_\_\_

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
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<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <input type="checkbox"/> Open Hole <input 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) _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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**MUD LOG**  
**WellSight Systems**  
Scale 1:240 (5"=100') Imperial  
Measured Depth Log

Well Name: Zerger A-1  
Location: W2 E2 E2 NE Sec 21 T8S R19W  
License Number: 32278  
Spud Date: 3/31/2012  
Surface Coordinates: 1320' FNL & 495' FEL  
Region: ROOKS County, KS  
Drilling Completed: 4/7/2012

Bottom Hole  
Coordinates:  
Ground Elevation (ft): 1997  
Logged Interval (ft): 2800 To: TD  
Formation: ARBUCKLE  
Type of Drilling Fluid: Chemical  
K.B. Elevation (ft): 2004  
Total Depth (ft): 3530

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		1435(+569)
Base Anhy		1468(+536)
TOPEKA	2938(-934)	2938(-934)
HEEBNER	3145(-1141)	3145(-1141)
TORONTO	3169(-1165)	3170(-1166)
LANSING	3186(-1182)	3184(-1180)
BKC	3404(-1400)	3404(-1400)
ARBUCKLE	3430(-1426)	3430(-1426)
TD	3532(-1528)	3530(-1526)

**DSTs**

DST #1 3210-3235; 45-45-45-45; Hydro: 1539-1498 IFP: 226-1044 ISIP: 1092 FFP: 1051-1098 FSIP: 1104; Rec: 1' oil 145' 2%o, 43%w 55%m 1984' reversed out 120' 95%w 5%m; Grav: 37 RW: .082@51F Chl: 160,000ppm; IF: BOB 30sec ISI: dead FF: BOB 1 1/2min FSI: dead

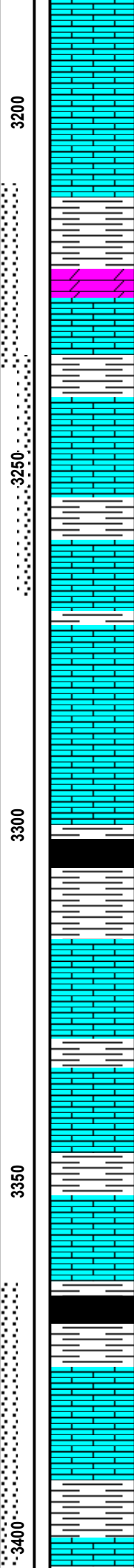
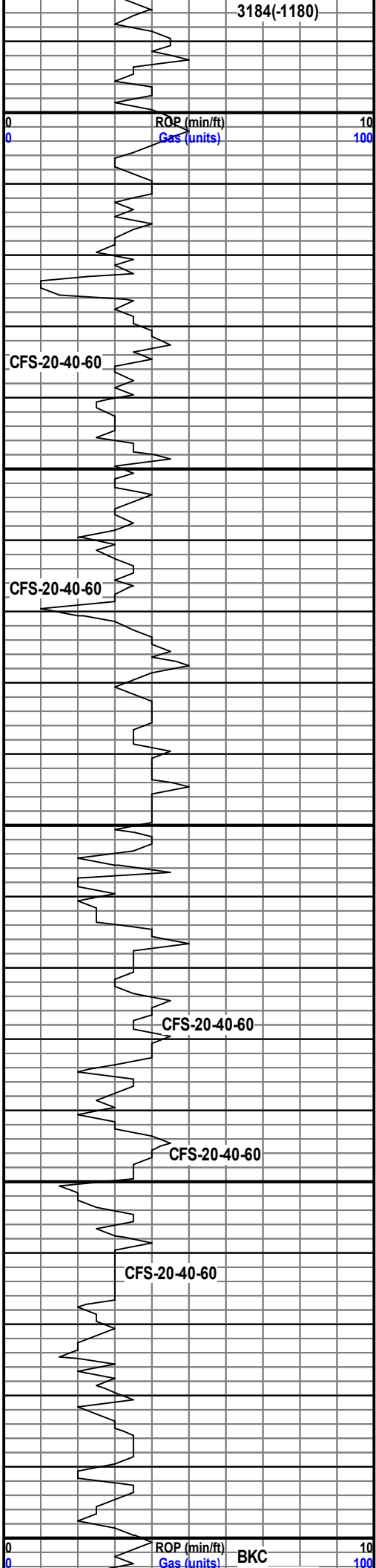
DST #2 3235-3267; 45-45-45-45; Hydro: 1464-1534 IFP: 39-131 ISIP: 1070 FFP: 137-219 FSIP: 1037; Rec: 590' GIP 185' 95%o 5%m 120' 60%o 40%m 60' 40%o 10%w 30%m 120' 90%w 10%m; Grav: 37 RW: .085@56F Chl: 130,000ppm; IF: BOB 5min ISI: 1 1/4" FF: BOB 6min FSI: BOB 18min

DST #3 3364-3410; 30-30-30-30; Hydro: 1686-1579 IFP: 18-22 ISIP: 1023 FFP: 23-23 FSIP: 953; Rec: 10' mud; IF: 1/2" ISI: dead FF: dead FSI: dead









● L.S.- wht-frm, fn xtl, grn stn, pr int xtl por, scat vugs, spty lt brwn oil stain, fr odor, v pr SFO, sli chlky  
 ● L.S.- wht-frm, fn xtl, grn stn, v pr vuggy por, spty lt brwn oil stain, gd odor, v pr SFO, chlky, freq wht chrt  
 L.S.- wht-frm, fn xtl, pk-grn stn, poss int xtl por, v fnt odor, no SFO, chlky  
 SH- red/brwn  
 ● Dolo- frm-tan, fn xtl, fr int xtl por w/ freq vugs, even saturation, gd odor, pr-fr SFO  
 ● L.S.- wht-frm, fn xtl, grn stn, pr int gran por, brwn sat stain, pr SFO  
 SH- grey, red-red/brwn  
 ● L.S.- wht-v lt grey, fn xtl, grn stn, pr int xtl-gd int gran por, gd odor, brwn sat oil stain, pr SFO, sli chlky  
 ● as above fr odor, rare SFO, chlky, mostly barren w/ SH- grey, red/brwn  
 ● L.S.- wht, fn xtl, grn stn, fr int gran por, str odor, fr SFO, sli chlky  
 SH- grey, red-red/brwn  
 ● L.S.- wht-frm, fn xtl, grn stn, pr int gran por, str odor, spty brwn oil stain, pr SFO, chlky, mostly barren, freq wht-lt grey chrt  
 ○ as above, fnt odor, v pr SFO, freq wht-brwn chrt, chlky  
 as above, fnt odor, no SFO, freq wht-lt grey-tan chrt, chlky w/ L.S.- v lt grey, fn xtl, md stn, no vis por, no SFO  
 SH- grey, red/brwn  
 ● SH- grey-green w/ L.S.- wht, fn xtl, grn stn, pr int xtl-v pr int gran por, fnt odor, spty brwn oil stain, v pr SFO, chlky, mostly barren  
 ○ L.S.- wht-frm, fn xtl, grn stn, v pr int xtl por, fnt odor, spty oil stain, rare SFO, chlky  
 ● L.S.- wht-frm, fn-micro xtl, grn stn, v pr-pr int xtl por w/ pr int gran por, fr odor, pr SFO, sli chlky, scat pyrite  
 ● L.S.- frm, fn xtl, wk stn, pr-fr int xtl por, gd odor, pr SFO, even brwn oil stain  
 ● L.S.- wht-frm, fn xtl, grn stn, pr int xtl por, gd odor, spotty brwn oil stain, pr SFO, v chlky  
 ● L.S.- wht-frm, fn xtl, grn stn, pr int xtl por, brwn oil stain, gd odor, pr SFO, chlky  
 SH- grey-blk, red/brwn  
 ● L.S.- wht-frm, fn xtl, grn stn, pr PP-v pr int gran por, fr odor, brwn oil stain, v pr SFO, chlky w/ SH- grey  
 ● L.S.- wht, fn-med xtl, grn stn, pr int gran por w/ freq fr-gd int xtl por, fr odor, fr SFO, sli chlky, scat pyrite  
 SH- grey

-Vis: 9.1  
 -Wt: 9.1  
 -LCM: 3ppb  
 DST #1 3210-3235 45-45-45-45  
 -Hydro: 1539-1498  
 -IFP: 226-1044 ISIP: 1092 1000  
 -FFP: 1051-1098 FSIP: 1104  
 -Rec: 1' oil  
 -145' 2%o, 43%w 55%  
 -1984' reversed out  
 -120' 95%w 5%  
 -Grav: 37 RW: .082@51F  
 -Chl: 160,000ppm  
 -IF: BOB 30sec ISI: dead  
 -FF: BOB 1 1/2min FSI: dead  
 Strap @ 3235': 1.69 long  
 Dev: 3/4  
 DST #2 3235-3267  
 45-45-45-45  
 -Hydro: 1464-1534  
 -IFP: 39-131 ISIP: 1070  
 -FFP: 137-219 FSIP: 1037  
 -Rec: 590' GIP  
 -185' 95%o 5%  
 -120' 60%o 40%  
 -60' 40%o 10%w 30%  
 -120' 90%w 10%  
 -Grav: 37 RW: .085@56F  
 -Chl: 130,000ppm  
 -IF: BOB 5min ISI: 1 1/4"  
 -FF: BOB 6min  
 -FSI: BOB 18min  
 -mudco mud check  
 @ 3235'  
 -Vis: 50  
 -Wt: 8.9  
 -LCM: 2ppb  
 -WL: 7.2  
 -Vis: 53  
 -Wt: 9.0  
 -LCM: 2ppb  
 -WL: 6.8  
 DST #3 3364-3410  
 30-30-30-30  
 -Hydro: 1686-1579  
 -IFP: 18-22 ISIP: 1023  
 -FFP: 23-23 FSIP: 953  
 -Rec: 10' mud  
 -IF: 1/2" ISI: dead  
 -FF: dead FSI: dead







# ALLIED OIL & GAS SERVICES, LLC 053508

Federal Tax I.D.# 20-5975804

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

SERVICE POINT:  
Great Bend, KS  
4-8-12

DATE <u>4-7-12</u>	SEC. <u>21</u>	TWP. <u>8E</u>	RANGE <u>19W</u>	CALLED OUT	ON LOCATION	JOB START <u>1:30 PM</u>	JOB FINISH <u>3:30 AM</u>
LEASE <u>Zerger 'A'</u>		WELL # <u>1</u>	LOCATION <u>Zurick, KS. 7 3/4</u>		COUNTY <u>Roops</u>	STATE <u>KS</u>	
OLD OR NEW (Circle one)			<u>north west into</u>				

CONTRACTOR American Eagle #2 OWNER Tengasco

TYPE OF JOB Production Pipe

HOLE SIZE 7 7/8 T.D. 3570'

CASING SIZE 5 1/2 DEPTH

TUBING SIZE 4.50 DEPTH 3522'

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG. 92.62'

PERFS.

DISPLACEMENT 76.75 BBL.

CEMENT

AMOUNT ORDERED 180 SY ASC + 2% Gel  
+ 10% salt

500 gallon ASF

**EQUIPMENT**

PUMP TRUCK # 395 CEMENTER HELPER Greg R Perry R

BULK TRUCK # 413 DRIVER Robert

BULK TRUCK # DRIVER

COMMON	@		
POZMIX	@		
GEL	@		
CHLORIDE	@		
ASC <u>180</u>	@	<u>19.00</u>	<u>3420.00</u>
<u>ASF</u>	@	<u>1.27</u>	<u>635.00</u>
	@		
	@		
	@		
	@		
	@		
	@		
HANDLING <u>215</u>	@	<u>2.10</u>	<u>451.50</u>
MILEAGE <u>9.71 x 68 x 2.35</u>			<u>1.551.65</u>
<b>TOTAL</b>			<u>6058.15</u>

**REMARKS:**

See

EMMEL

See

CHARGE TO: Tengasco

STREET \_\_\_\_\_

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

**SERVICE**

DEPTH OF JOB <u>3532</u>		
PUMP TRUCK CHARGE		<u>2,225.00</u>
EXTRA FOOTAGE	@	
MILEAGE <u>HUM 68</u>	@	<u>7.00</u> <u>476.00</u>
MANIFOLD	@	
<u>HUM 68</u>	@	<u>4.00</u> <u>272.00</u>
	@	
<b>TOTAL</b>		
<u>2973.00</u>		

**PLUG & FLOAT EQUIPMENT**

<u>16 Neutralizers 5/8"</u>	@	<u>49.00</u>	<u>294.00</u>
<u>11 5 1/2 basket</u>	@	<u>337.00</u>	<u>337.00</u>
<u>7 3 1/2 port collar</u>	@	<u>2600.00</u>	<u>2600.00</u>
<u>5 1/2 insert erubber plug</u>	@	<u>286.00/130</u>	<u>359.00</u>
<u>5 1/2 shoe</u>	@	<u>240.00</u>	<u>240.00</u>
<b>TOTAL</b>			<u>3880.00</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.

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

SIGNATURE Keith Karls

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

TOTAL CHARGES 12,911.15

50% 20% 3,272.12

DISCOUNT \_\_\_\_\_ IF PAID IN 30 DAYS

9,639.03

# ALLIED OIL & GAS SERVICES, LLC 056941

Federal Tax I.D.# 20-5975804

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

SERVICE POINT:  
Russell

DATE 4-17-12	SEC 21	TWP B	RANGE 9	CALLED OUT	ON LOCATION	JOB START 11:30	JOB FINISH 12:00
LEASE 2-cmwr	WELL# A-1	LOCATION 2 1/2 x 4 7.7H with				COUNTY Rooks	STATE KS
OLD OR (NEW) (Circle one)							

CONTRACTOR <u>YLP</u>	OWNER
TYPE OF JOB <u>Port 2 1/2</u>	
HOLE SIZE <u>4 1/2</u>	T.D. <u>3482</u>
CASING SIZE	DEPTH
TUBING SIZE <u>2 3/8</u>	DEPTH <u>1448</u>
DRILL PIPE	DEPTH
TOOL <u>Port 1 1/2</u>	DEPTH <u>1446</u>
PRES. MAX	MINIMUM
MEAS. LINE	SHOE JOINT

CEMENT LEFT IN CSG.	
PERFS.	
DISPLACEMENT <u>6.5 BBL</u>	

EQUIPMENT	
PUMP TRUCK # <u>409</u>	CEMENTER <u>Tobin, B&amp;B 3.</u>
	HELPER <u>Wadey</u>
BULK TRUCK # <u>473</u>	DRIVER <u>Cady</u>
BULK TRUCK #	DRIVER

REMARKS:  
 Port Pl. Prepared to 750 Hhd  
 raised app. pl. 1/2 inch flow  
 mixed 205 gr. 600/100  
 displaced 6.5 BBL  
 205 gr. pl. 5000  
 re-vent circulate until clean  
 Cement did to surface

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

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.

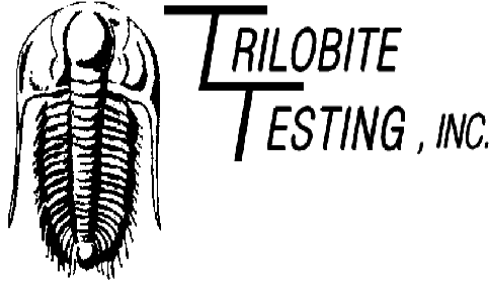
PRINTED NAME \_\_\_\_\_  
 SIGNATURE Harry Wagner

CEMENT AMOUNT ORDERED	<u>3175 pk</u>	<u>60/40</u>
	<u>4 x 60</u>	<u>4 x 60</u>
COMMON	<u>159</u>	@ <u>16.25</u> <u>2583.75</u>
POZMIX	<u>186</u>	@ <u>5.50</u> <u>981.00</u>
GEL	<u>6</u>	@ <u>21.25</u> <u>127.50</u>
CHLORIDE		@
ASC	<u>Chp - 320 1 (4)</u>	@ <u>2.70</u> <u>10.80</u>
		@ <u>1.72.00</u>
		@
		@
		@
		@
HANDLING	<u>271</u>	@ <u>2.25</u> <u>608.25</u>
MILEAGE	<u>272.8</u>	@ <u>62</u> <u>16915.04</u>
TOTAL		<u>6252.09</u>

SERVICE	
DEPTH OF JOB	<u>1446'</u>
PUMP TRUCK CHARGE	<u>1925.00</u>
EXTRA FOOTAGE	@
MILEAGE ml HV	<u>62</u> @ <u>7.00</u> <u>434.00</u>
MANIFOLD	@
<u>ml HV</u>	<u>62</u> @ <u>4.00</u> <u>248.00</u>
	@
TOTAL	<u>2607.00</u>

PLUG & FLOAT EQUIPMENT	
	@
	@
	@
	@
	@
TOTAL	_____

SALES TAX (If Any) 238.45  
 TOTAL CHARGES 8,859.59  
 DISCOUNT 2050 2532.93 IF PAID IN 30 DAYS



## DRILL STEM TEST REPORT

Prepared For: **Tengasco, Inc.**

PO Box 458  
Hays, KS 67601

ATTN: Clayton Erickson

**Zerger A-1**

**21-8-19 Rooks,KS**

Start Date: 2012.04.05 @ 01:19:46

End Date: 2012.04.05 @ 08:54:46

Job Ticket #: 45705                      DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.04.11 @ 08:57:24



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Tengasco, Inc.

**21-8-19 Rooks, KS**

PO Box 458  
Hays, KS 67601

**Zerger A-1**

Job Ticket: 45705

**DST#: 1**

ATTN: Clayton Erickson

Test Start: 2012.04.05 @ 01:19:46

## GENERAL INFORMATION:

Formation: **LKC "C"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:26:16

Time Test Ended: 08:54:46

Test Type: Conventional Bottom Hole (Initial)

Tester: Brian Fairbank

Unit No: 41

**Interval: 3210.00 ft (KB) To 3235.00 ft (KB) (TVD)**

Reference Elevations: 2004.00 ft (KB)

Total Depth: 3235.00 ft (KB) (TVD)

1997.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 7.00 ft

**Serial #: 8734 Outside**

Press @ Run Depth: 1097.98 psig @ 3212.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.04.05

End Date:

2012.04.05

Last Calib.:

2012.04.05

Start Time: 01:19:47

End Time:

08:54:46

Time On Btm:

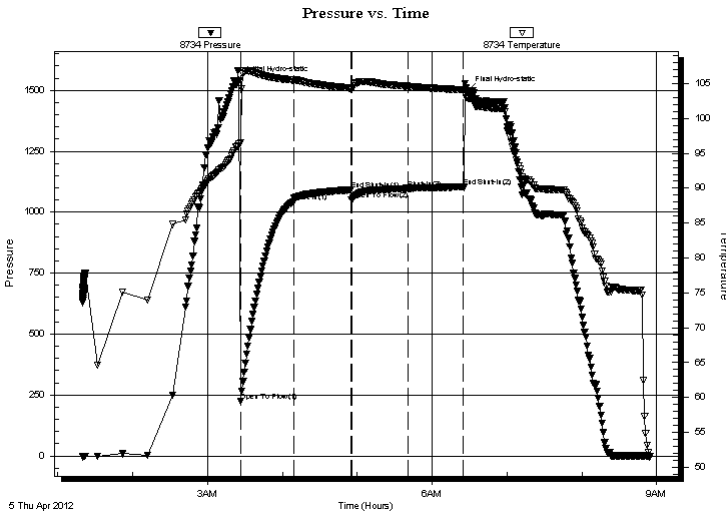
2012.04.05 @ 03:25:16

Time Off Btm:

2012.04.05 @ 06:28:46

**TEST COMMENT:** IFP - BOB 30 sec  
ISI - no blow back  
FFP - BOB 1 1/2 min  
FSI - no blow back

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1538.90	96.31	Initial Hydro-static
1	225.52	96.54	Open To Flow (1)
44	1043.91	105.51	Shut-In(1)
90	1091.87	104.33	End Shut-In(1)
90	1050.80	104.31	Open To Flow (2)
136	1097.98	104.60	Shut-In(2)
180	1104.03	104.11	End Shut-In(2)
184	1498.00	102.94	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
120.00	MW 95%W, 5%M	1.68
1984.00	REVERSED OUT WATER	27.83
145.00	V/SOCWM 2%O, 43%W, 55%M	2.03
1.00	FREE OIL 95%O, 5%M	0.01

## Gas Rates

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





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Tengasco, Inc.

**21-8-19 Rooks, KS**

PO Box 458  
Hays, KS 67601

**Zerger A-1**

Job Ticket: 45705

**DST#: 1**

ATTN: Clayton Erickson

Test Start: 2012.04.05 @ 01:19:46

## Tool Information

Drill Pipe:	Length: 3209.00 ft	Diameter: 3.80 inches	Volume: 45.01 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 64000.00 lb
			<u>Total Volume: 45.01 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	26.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	3210.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	25.00 ft			
Tool Length:	52.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
------------------	-------------	------------	----------	------------	----------------

Shut In Tool	5.00			3188.00	
Hydraulic tool	5.00			3193.00	
Jars	5.00			3198.00	
Safety Joint	2.00			3200.00	
Packer	5.00			3205.00	27.00 Bottom Of Top Packer
Packer	5.00			3210.00	
Stubb	1.00			3211.00	
Perforations	1.00			3212.00	
Recorder	0.00	6669	Inside	3212.00	
Recorder	0.00	8734	Outside	3212.00	
Perforations	20.00			3232.00	
Bullnose	3.00			3235.00	25.00 Bottom Packers & Anchor

**Total Tool Length: 52.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Tengasco, Inc.

**21-8-19 Rooks, KS**

PO Box 458  
Hays, KS 67601

**Zerger A-1**

Job Ticket: 45705

**DST#: 1**

ATTN: Clayton Erickson

Test Start: 2012.04.05 @ 01:19:46

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

37 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

160000 ppm

Viscosity: 40.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.79 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2900.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
120.00	MW 95%W, 5%M	1.683
1984.00	REVERSED OUT WATER	27.830
145.00	VSOCWM 2%O, 43%W, 55%M	2.034
1.00	FREE OIL 95%O, 5%M	0.014

Total Length: 2250.00 ft

Total Volume: 31.561 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

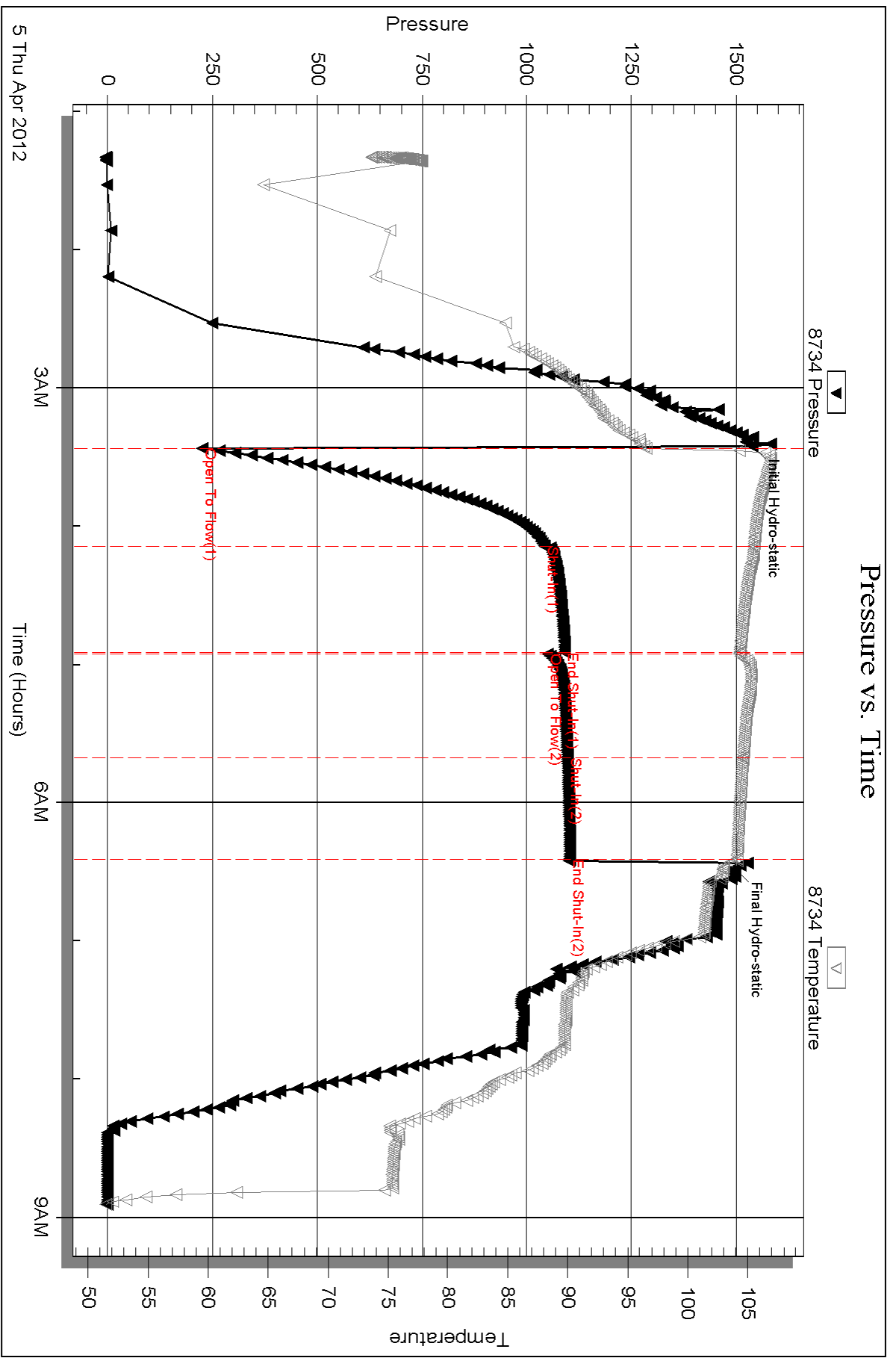
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





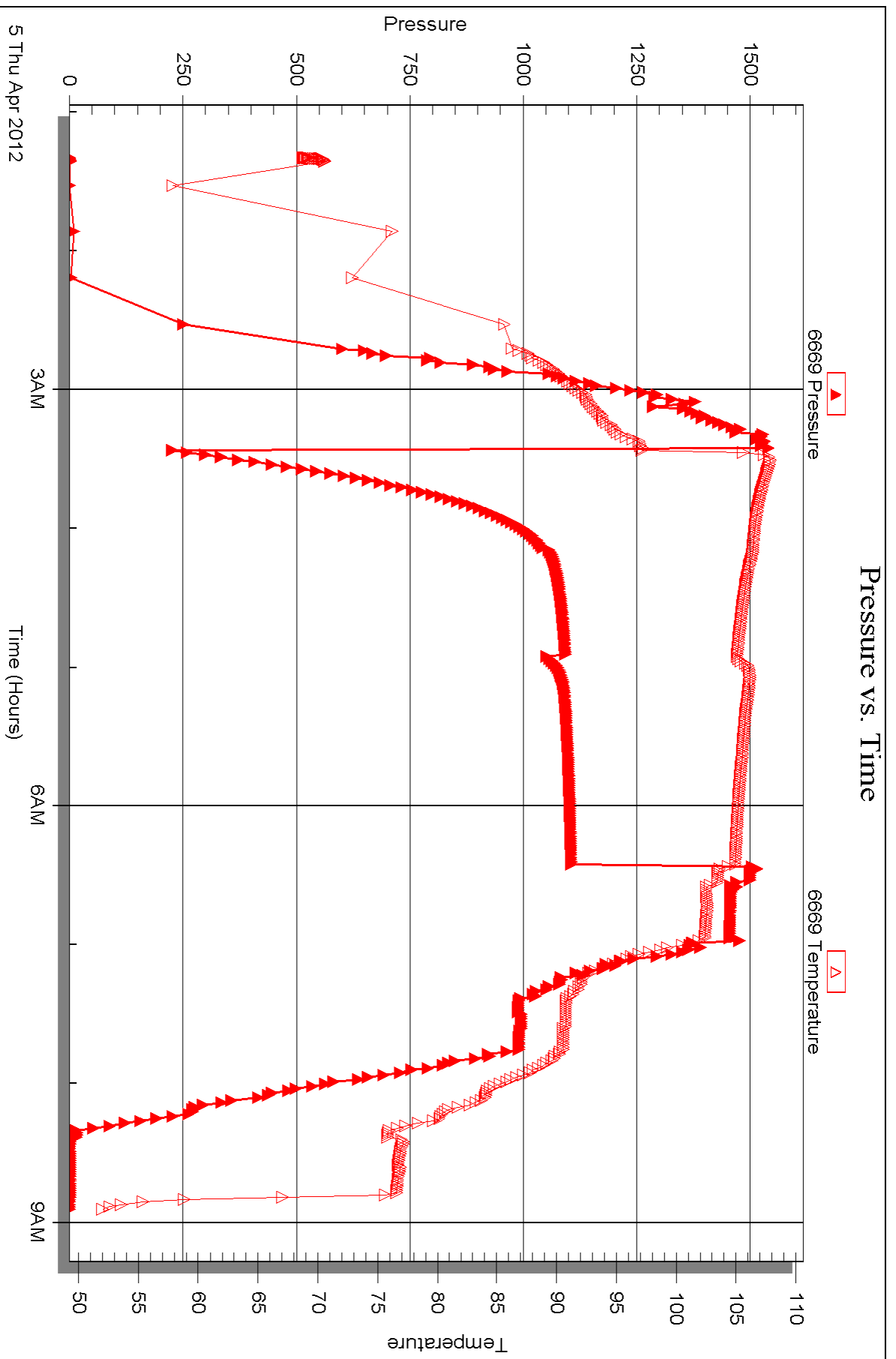
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Inside

Tengasco, Inc.

Zerger A-1

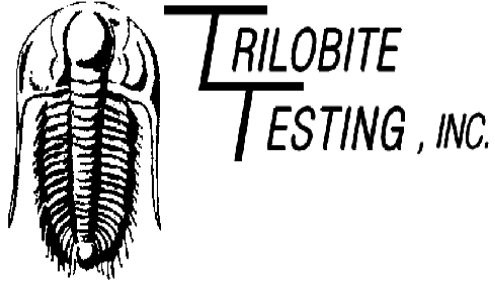
DST Test Number: 1



Triobite Testing, Inc

Ref. No: 45705

Printed: 2012.04.11 @ 08:57:30



## DRILL STEM TEST REPORT

Prepared For: **Tengasco, Inc.**

PO Box 458  
Hays, KS 67601

ATTN: Clayton Erickson

**Zerger A-1**

**21-8-19 Rooks,KS**

Start Date: 2012.04.05 @ 15:54:47

End Date: 2012.04.05 @ 22:05:47

Job Ticket #: 45706                      DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.04.11 @ 08:56:20



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Tengasco, Inc.

**21-8-19 Rooks, KS**

PO Box 458  
Hays, KS 67601

**Zerger A-1**

Job Ticket: 45706

**DST#: 2**

ATTN: Clayton Erickson

Test Start: 2012.04.05 @ 15:54:47

## GENERAL INFORMATION:

Formation: **LKC "D-F"**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 17:16:47  
 Time Test Ended: 22:05:47  
 Interval: **3235.00 ft (KB) To 3267.00 ft (KB) (TVD)**  
 Total Depth: 3267.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Good  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Brian Fairbank  
 Unit No: 41  
 Reference Elevations: 2004.00 ft (KB)  
 1997.00 ft (CF)  
 KB to GR/CF: 7.00 ft

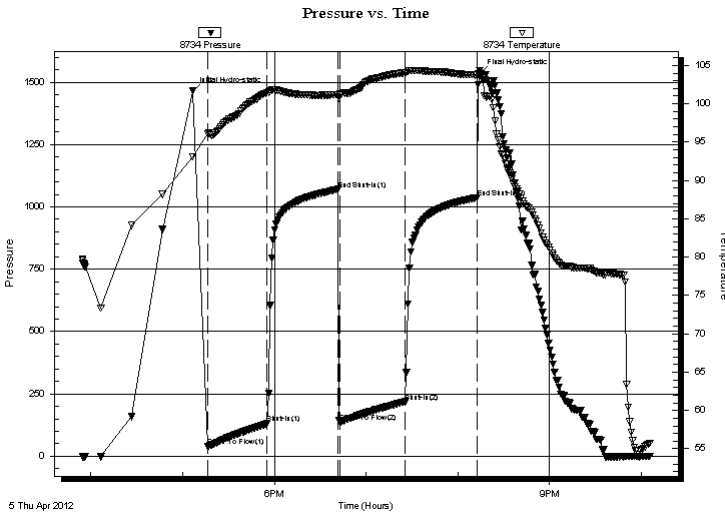
## Serial #: 8734

**Outside**

Press @ Run Depth: 218.64 psig @ 3239.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2012.04.05 End Date: 2012.04.05 Last Calib.: 2012.04.05  
 Start Time: 15:54:48 End Time: 22:05:47 Time On Btm: 2012.04.05 @ 17:06:47  
 Time Off Btm: 2012.04.05 @ 20:14:47

**TEST COMMENT:** IFP - BOB 5 min  
 ISI - 1 1/4" blow back throughout  
 FFP - BOB 6 min  
 FSI - BOB 18 min

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1463.73	93.13	Initial Hydro-static
10	39.17	96.10	Open To Flow (1)
49	130.71	101.43	Shut-In(1)
95	1070.30	101.20	End Shut-In(1)
96	137.37	101.18	Open To Flow (2)
139	218.64	104.05	Shut-In(2)
186	1037.21	103.75	End Shut-In(2)
188	1533.51	103.64	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
120.00	MW 90%W, 10%M	1.68
60.00	W & MCO 40%O, 10%W, 30%M	0.84
120.00	MCO 60%O, 40%M	1.68
185.00	FREE OIL 95%O, 5%M	2.60
0.00	590' GIP	0.00

\* 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.

**21-8-19 Rooks, KS**

PO Box 458  
Hays, KS 67601

**Zerger A-1**

Job Ticket: 45706

**DST#: 2**

ATTN: Clayton Erickson

Test Start: 2012.04.05 @ 15:54:47

## Tool Information

Drill Pipe:	Length: 3240.00 ft	Diameter: 3.80 inches	Volume: 45.45 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 54000.00 lb
			<u>Total Volume: 45.45 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	32.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	3235.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	32.00 ft			
Tool Length:	59.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
------------------	-------------	------------	----------	------------	----------------

Shut In Tool	5.00			3213.00	
Hydraulic tool	5.00			3218.00	
Jars	5.00			3223.00	
Safety Joint	2.00			3225.00	
Packer	5.00			3230.00	27.00 Bottom Of Top Packer
Packer	5.00			3235.00	
Stubb	1.00			3236.00	
Perforations	3.00			3239.00	
Recorder	0.00	6669	Inside	3239.00	
Recorder	0.00	8734	Outside	3239.00	
Perforations	25.00			3264.00	
Bullnose	3.00			3267.00	32.00 Bottom Packers & Anchor

**Total Tool Length: 59.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Tengasco, Inc.

**21-8-19 Rooks, KS**

PO Box 458  
Hays, KS 67601

**Zerger A-1**

Job Ticket: 45706

**DST#: 2**

ATTN: Clayton Erickson

Test Start: 2012.04.05 @ 15:54:47

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

37 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

130000 ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbbl

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

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
120.00	MW 90%W, 10%M	1.683
60.00	W & MCO 40%O, 10%W, 30%M	0.842
120.00	MCO 60%O, 40%M	1.683
185.00	FREE OIL 95%O, 5%M	2.595
0.00	590' GIP	0.000

Total Length: 485.00 ft

Total Volume: 6.803 bbl

Num Fluid Samples: 0

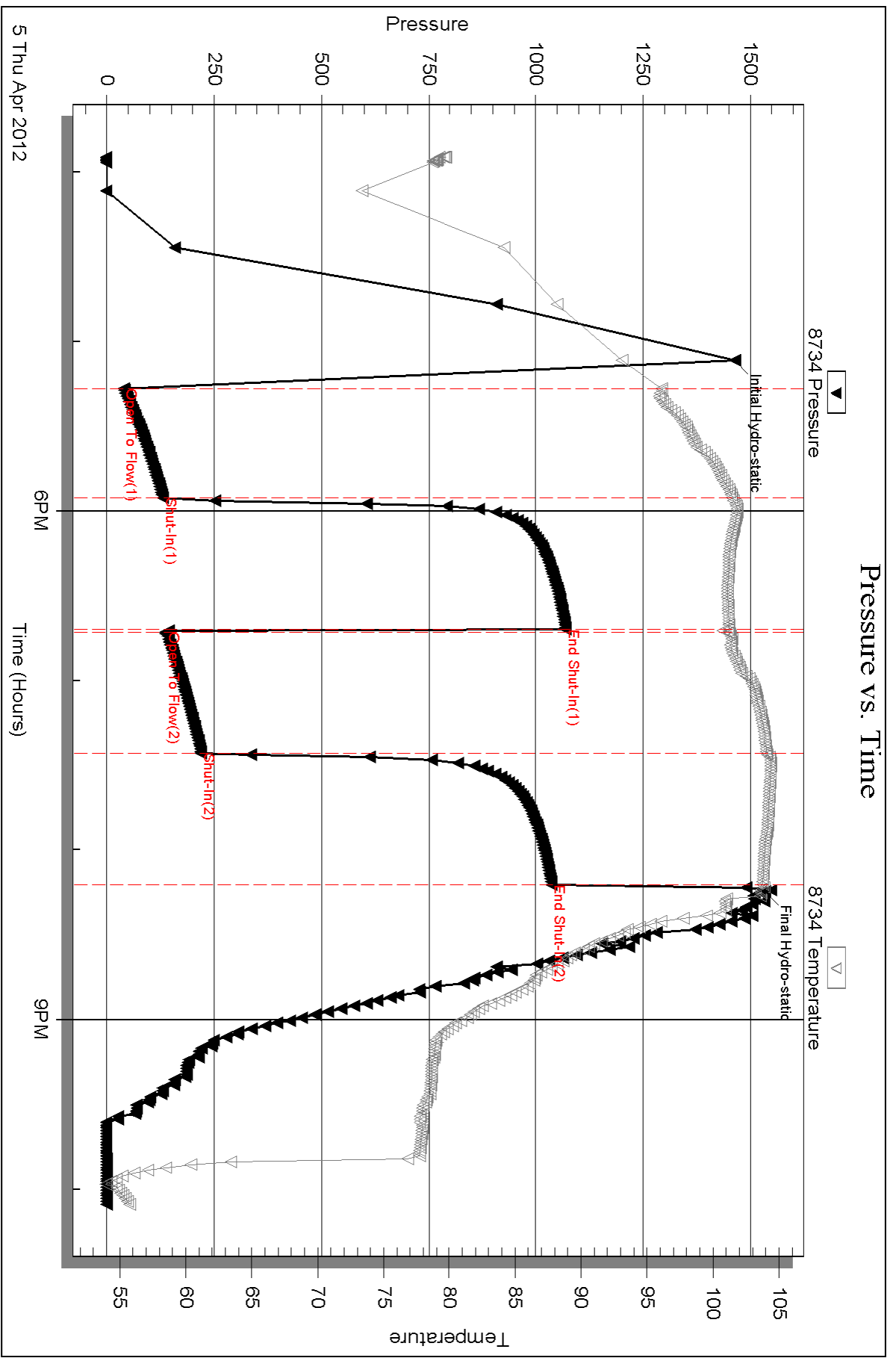
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





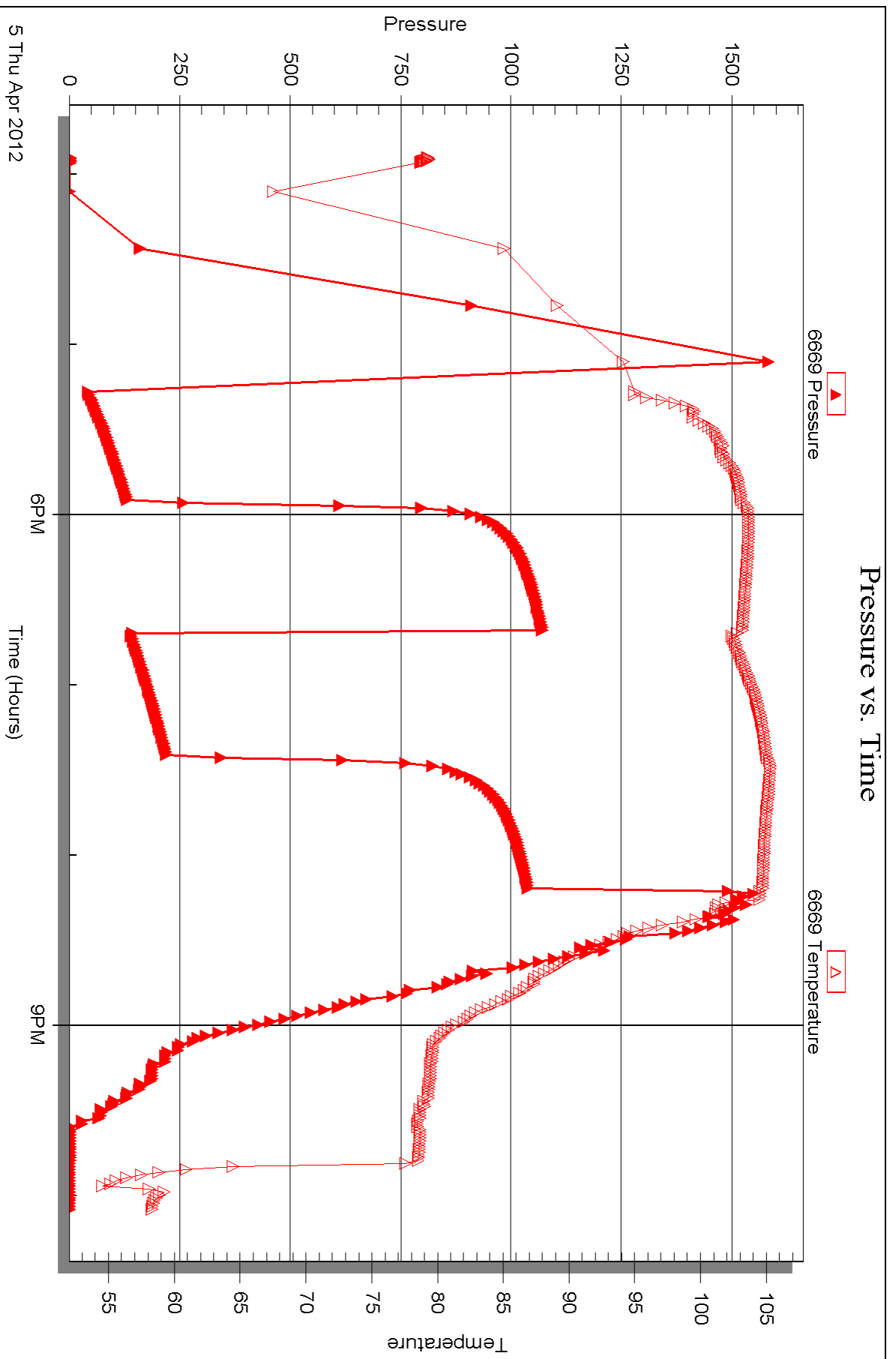
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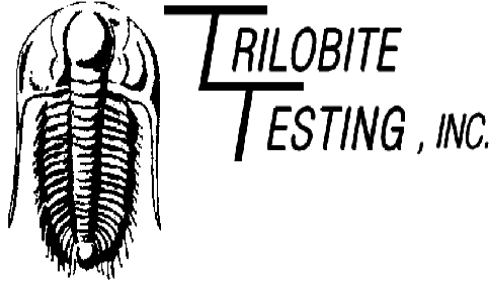
Inside

Tengasco, Inc.

Zerger A-1

DST Test Number: 2





## DRILL STEM TEST REPORT

Prepared For: **Tengasco, Inc.**

PO Box 458  
Hays, KS 67601

ATTN: Clayton Erickson

**Zerger A-1**

**21-8-19 Rooks,KS**

Start Date: 2012.04.06 @ 15:03:55

End Date: 2012.04.06 @ 19:51:55

Job Ticket #: 45707                      DST #: 3

Trilobite Testing, Inc  
PO Box 362 Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Printed: 2012.04.11 @ 08:55:28



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Tengasco, Inc.

**21-8-19 Rooks, KS**

PO Box 458  
Hays, KS 67601

**Zerger A-1**

Job Ticket: 45707

**DST#: 3**

ATTN: Clayton Erickson

Test Start: 2012.04.06 @ 15:03:55

## GENERAL INFORMATION:

Formation: **LKC "K"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:33:25

Time Test Ended: 19:51:55

Test Type: Conventional Bottom Hole (Reset)

Tester: Brian Fairbank

Unit No: 41

**Interval: 3364.00 ft (KB) To 3410.00 ft (KB) (TVD)**

Reference Elevations: 2004.00 ft (KB)

Total Depth: 3410.00 ft (KB) (TVD)

1997.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 7.00 ft

**Serial #: 8734 Outside**

Press @ Run Depth: 22.93 psig @ 3369.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.04.06

End Date:

2012.04.06

Last Calib.:

2012.04.06

Start Time: 15:03:56

End Time:

19:51:55

Time On Btm:

2012.04.06 @ 16:32:25

Time Off Btm:

2012.04.06 @ 18:34:55

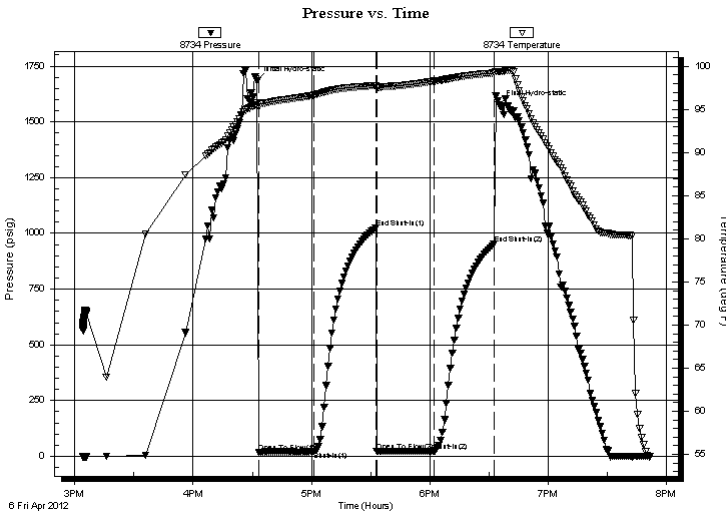
**TEST COMMENT:** IFP - weak blow throughout sur - 1/2"

ISI - no blow back

FFP - no blow

FSI - no blow back

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1686.49	95.80	Initial Hydro-static
1	17.78	95.36	Open To Flow (1)
29	22.24	96.68	Shut-In(1)
60	1023.33	97.79	End Shut-In(1)
61	22.88	97.48	Open To Flow (2)
90	22.93	98.27	Shut-In(2)
120	952.69	99.24	End Shut-In(2)
123	1579.28	99.38	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
10.00	DRL MUD 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.

**21-8-19 Rooks, KS**

PO Box 458  
Hays, KS 67601

**Zerger A-1**

Job Ticket: 45707

**DST#: 3**

ATTN: Clayton Erickson

Test Start: 2012.04.06 @ 15:03:55

## Tool Information

Drill Pipe:	Length: 3364.00 ft	Diameter: 3.80 inches	Volume: 47.19 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 56000.00 lb
			<u>Total Volume: 47.19 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	27.00 ft			String Weight: Initial 54000.00 lb
Depth to Top Packer:	3364.00 ft			Final 54000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	46.00 ft			
Tool Length:	73.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

## Tool Description

**Length (ft) Serial No. Position Depth (ft) Accum. Lengths**

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3342.00	
Hydraulic tool	5.00			3347.00	
Jars	5.00			3352.00	
Safety Joint	2.00			3354.00	
Packer	5.00			3359.00	27.00 Bottom Of Top Packer
Packer	5.00			3364.00	
Stubb	1.00			3365.00	
Perforations	4.00			3369.00	
Recorder	0.00	6669	Inside	3369.00	
Recorder	0.00	8734	Outside	3369.00	
Change Over Sub	1.00			3370.00	
Blank Spacing	31.00			3401.00	
Change Over Sub	1.00			3402.00	
Perforations	5.00			3407.00	
Bullnose	3.00			3410.00	46.00 Bottom Packers & Anchor

**Total Tool Length: 73.00**



**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Tengasco, Inc.

**21-8-19 Rooks,KS**

PO Box 458  
Hays, KS 67601

**Zerger A-1**

Job Ticket: 45707

**DST#: 3**

ATTN: Clayton Erickson

Test Start: 2012.04.06 @ 15:03:55

**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: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.78 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: inches

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
10.00	DRL MUD 100%	0.140

Total Length: 10.00 ft      Total Volume: 0.140 bbl

Num Fluid Samples: 0

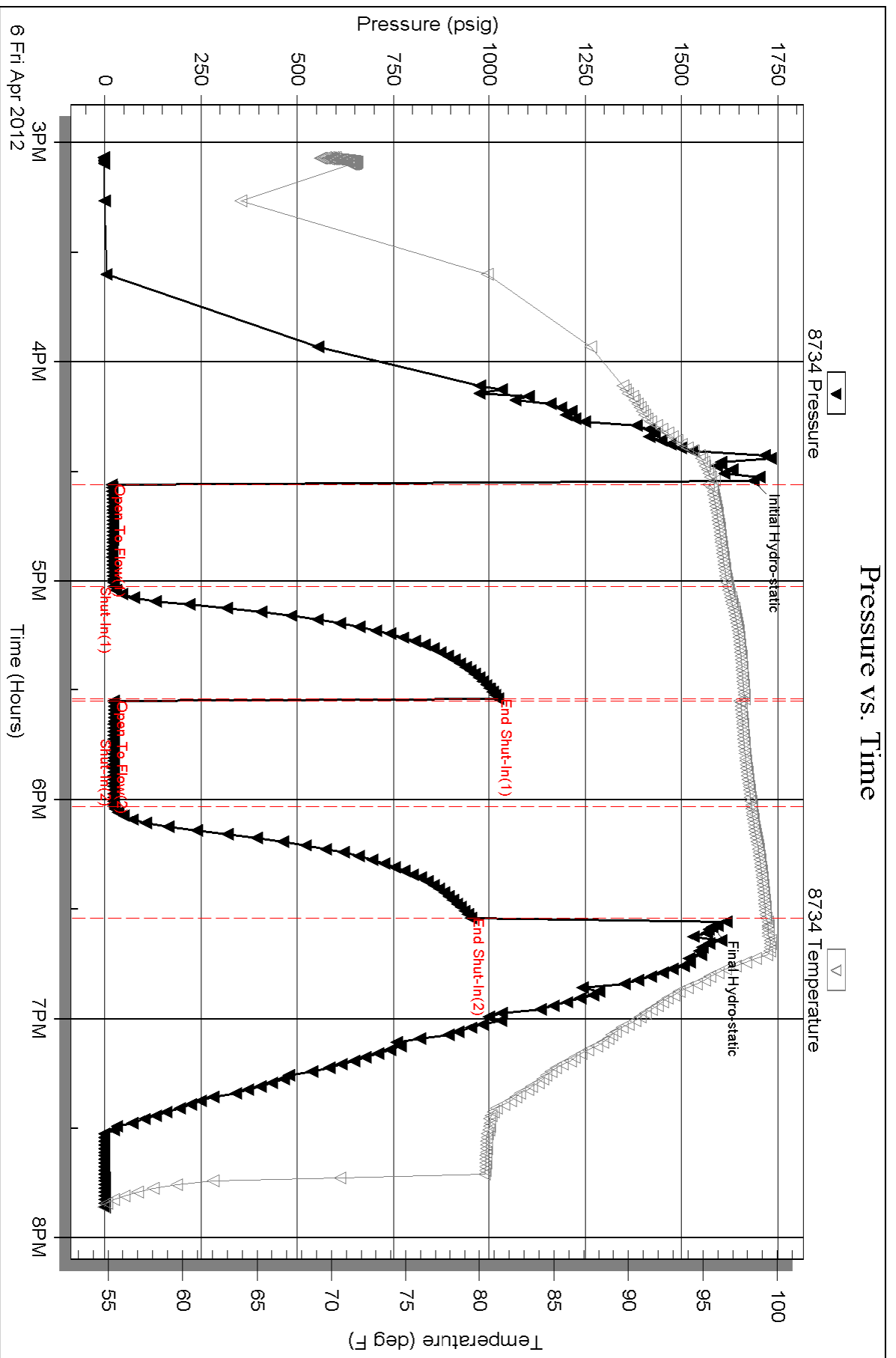
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



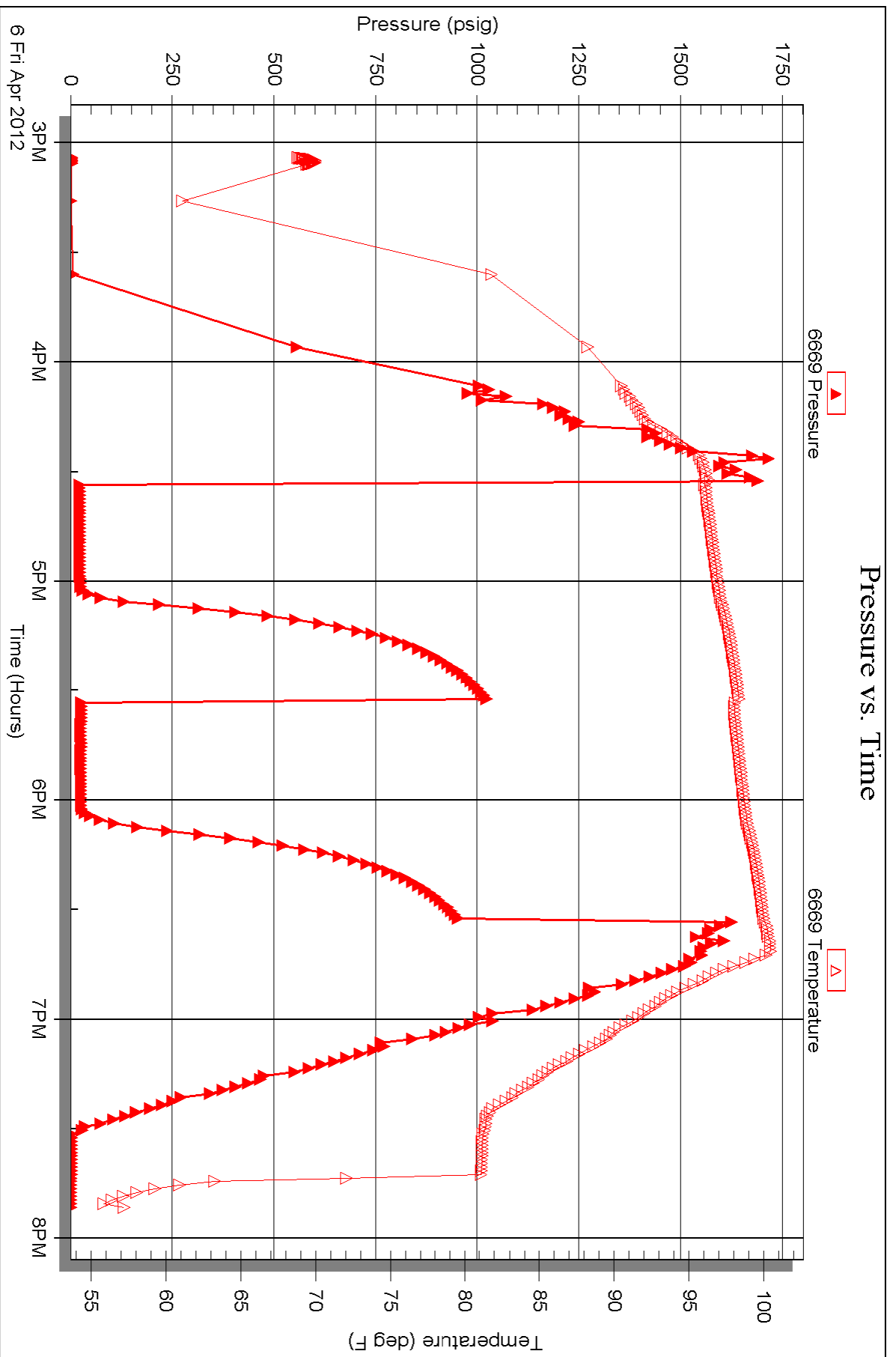
Serial #: 6669

Inside

Tengasco, Inc.

Zerger A-1

DST Test Number: 3







# TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

RECEIVED  
APR 09 2012  
BY: \_\_\_\_\_

## Test Ticket

NO. 45705

Well Name & No. Zerger A-1 Test No. 1 Date 4-4-12  
 Company Tengasco Elevation 2004 KB 1997 GL  
 Address 1327 Noose Rd PO Box 458 Hays, Ki 67601  
 Co. Rep / Geo. Clyton Erickson Rig Am Eagle 2  
 Location: Sec. 21 Twp. 8 Rge. 19 Co. Rooks State K

Interval Tested 3210 - 3235 Zone Tested LKC 2"  
 Anchor Length 25 Drill Pipe Run 3209 Mud Wt. 8.9  
 Top Packer Depth 3205 Drill Collars Run — Vis 40  
 Bottom Packer Depth 3210 Wt. Pipe Run — WL 6.8  
 Total Depth 3235 Chlorides 2900 ppm System LCM  
 Blow Description IFP - BOB 30 sec  
ISI - no blow back  
FFP - BOB 1 1/2 min  
FSI - no blow back

Rec	Feet of	%gas	%oil	%water	%mud
<u>1</u>	<u>Free oil</u>		<u>95%</u>		<u>5%</u>
<u>145</u>	<u>USOCWM</u>		<u>2%</u>	<u>43%</u>	<u>55%</u>
<u>1984</u>	<u>reversed out water</u>				
<u>120</u>	<u>MW</u>			<u>95%</u>	<u>5%</u>

Rec Total 2250 BHT 104 Gravity 37 API RW .082 @ 51° F Chlorides 160,000 ppm  
 (A) Initial Hydrostatic 1539  Test 1125' T-On Location 2358  
 (B) First Initial Flow 226  Jars 250 T-Started 0119  
 (C) First Final Flow 1044  Safety Joint 75' T-Open 0325  
 (D) Initial Shut-In 1092  Circ Sub 50' T-Pulled 0625  
 (E) Second Initial Flow 1051  Hourly Standby T-Out 0855  
 (F) Second Final Flow 1098  Mileage 85 RT 119' Comments  
 (G) Final Shut-In 1104  Sampler  
 (H) Final Hydrostatic 1498  Straddle  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  
 Sub Total 11619'

Approved By \_\_\_\_\_ Our Representative Brian Farbank

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

RECEIVED  
APR 09 2012

## Test Ticket

NO. 45706

Well Name & No. Zenger A-1 Test No. 2 Date 4-5-12  
 Company Tenagasco Elevation 2004 KB 1997 GL  
 Address \_\_\_\_\_  
 Co. Rep / Geo. Clayton Erakson Rig Am Eng 2  
 Location: Sec. 21 Twp. 8 Rge. 19 Co. Rock State KS

Interval Tested 3235-3267 Zone Tested LIC "D-F"  
 Anchor Length 32 Drill Pipe Run 3240 Mud Wt. 8.9  
 Top Packer Depth 3230 Drill Collars Run — Vis 50  
 Bottom Packer Depth 3235 Wt. Pipe Run — WL 7.2  
 Total Depth 3267 Chlorides 3000 ppm System LCM \_\_\_\_\_

Blow Description IFP- BOB 5 min  
ISI- 1 1/4" blow back throughout  
FFP- BOB 6 min  
FSI- BOB 18 min

Rec	Feet of	%gas	%oil	%water	%mud
<u>590</u>	<u>GIP</u>				
<u>185</u>	<u>Free oil</u>		<u>95</u>		<u>5</u>
<u>120</u>	<u>MCO</u>		<u>60</u>		<u>40</u>
<u>60</u>	<u>W+MCO</u>		<u>40</u>	<u>10</u>	<u>30</u>
<u>120</u>	<u>MW</u>			<u>90</u>	<u>10</u>

Rec Total 485 BHT 104 Gravity 37 API RW 1.075 @ 56° F Chlorides 130,000 ppm  
 (A) Initial Hydrostatic 1464  Test 1125 T-On Location 1544  
 (B) First Initial Flow 39  Jars 250' T-Started 1554  
 (C) First Final Flow 131  Safety Joint 75' T-Open 1711  
 (D) Initial Shut-In 1070  Circ Sub T-Pulled 2011  
 (E) Second Initial Flow 137  Hourly Standby T-Out 2205  
 (F) Second Final Flow 219  Mileage 85 RT 119' Comments \_\_\_\_\_  
 (G) Final Shut-In 1037  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1534  Straddle \_\_\_\_\_

Ruined 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 1569  
 Total 1569  
 MP/DST Disc't \_\_\_\_\_

Approved By \_\_\_\_\_ Our Representative Brian Farbank

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

RECEIVED  
APR 09 2012

## Test Ticket

NO. 45707

Well Name & No. Zenger A-1 Test No. 3 Date 4-6-12  
 Company Tengasco Elevation 2004 KB 1997 GL  
 Address \_\_\_\_\_  
 Co. Rep / Geo. Clyden Erickson Rig Am Eagle 2  
 Location: Sec. 21 Twp. 8 Rge. 19 Co. Rooks State K

Interval Tested 3364-3410 Zone Tested LKC "k"  
 Anchor Length 46 Drill Pipe Run 3364 Mud Wt. 7.0  
 Top Packer Depth 3359 Drill Collars Run \_\_\_\_\_ Vis 53  
 Bottom Packer Depth 3364 Wt. Pipe Run \_\_\_\_\_ WL 6.8  
 Total Depth 3410 Chlorides 3000 ppm System LCM \_\_\_\_\_  
 Blow Description FFP - weak blow throughout sur - 1/2"  
FSI - no blow back  
FFP - no blow  
FSI - no blow back

Rec	Feet of	%gas	%oil	%water	%mud
<u>10</u>	<u>drl mud</u>			<u>100</u>	
____	____	____	____	____	____
____	____	____	____	____	____
____	____	____	____	____	____
____	____	____	____	____	____

Rec Total 10 BHT 99 Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic <u>1686</u>	<input checked="" type="checkbox"/> Test <u>1125'</u>	T-On Location <u>1435</u>
(B) First Initial Flow <u>18</u>	<input checked="" type="checkbox"/> Jars <u>250'</u>	T-Started <u>1503</u>
(C) First Final Flow <u>22</u>	<input checked="" type="checkbox"/> Safety Joint <u>75'</u>	T-Open <u>1632</u>
(D) Initial Shut-In <u>1023</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>1832</u>
(E) Second Initial Flow <u>23</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>1951</u>
(F) Second Final Flow <u>23</u>	<input checked="" type="checkbox"/> Mileage <u>85RT</u> <u>x2</u> <u>238'</u>	Comments <u>mileage to land tool</u>
(G) Final Shut-In <u>953</u>	<input type="checkbox"/> Sampler _____	<input type="checkbox"/> Ruined Shale Packer _____
(H) Final Hydrostatic <u>1579</u>	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> Ruined Packer _____
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Extra Copies _____
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Packer _____	Sub Total <u>0</u>
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder _____	Total <u>11688</u>
Final Shut-In <u>30</u>	<input type="checkbox"/> Day Standby _____	MP/DST Disc't _____
	<input type="checkbox"/> Accessibility _____	
	Sub Total <u>11688</u>	

Approved By \_\_\_\_\_ Our Representative Brian Fairbank

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