

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

**ORIGINAL**

Form ACO-1

June 2009

Form Must Be Typed

Form must be Signed

All blanks must be Filled

OPERATOR: License # 32278

Name: Tengasco, Inc.

Address 1: PO Box 458

Address 2: 1327 Noose Rd.

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

3-28-11    4-3-11    4-14-11

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

API No. 15 - 163-23944-00-00

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

S2 N2 N2 NE Sec. 3 Twp. 9 S. R. 18  East  West

540 Feet from  North /  South Line of Section

1,320 Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE     NW     SE     SW

County: Rooks

Lease Name: McElhaney A Well #: 3

Field Name: Yoho

Producing Formation: Lansing

Elevation: Ground: 2003' Kelly Bushing: 2008'

Total Depth: 3515' Plug Back Total Depth: 3271'

Amount of Surface Pipe Set and Cemented at: 260 Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set: 1398 Feet

If Alternate II completion, cement circulated from: 1398'

feet depth to: surface w/ 225 sx cmt.

**Drilling Fluid Management Plan**

(Data must be collected from the Reserve Pit)

Chloride content: 29,000 ppm Fluid volume: 175 bbls

Dewatering method used: Hauled to SWD

Location of fluid disposal if hauled offsite:

Operator Name: Tengasco, Inc.

Lease Name: Mosher License #: 32278

Quarter SE Sec. 33 Twp. 8 S. R. 18  East  West

County: Rooks Permit #: D-20,839

**INSTRUCTIONS:** An original and two copies of this form shall be filed with the Kansas Corporation Commission, 130 S. Market - Room 2078, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information of side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form (see rule 82-3-107 for confidentiality in excess of 12 months). One copy of all wireline logs and geologist well report shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

**AFFIDAVIT**

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Signature: Gary Wagner

Title: Production Manager Date: 6-30-11

**KCC Office Use ONLY**

Letter of Confidentiality Received

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

Confidential Release Date: \_\_\_\_\_

Wireline Log Received

Geologist Report Received

UIC Distribution

ALT  I  II  III Approved by: Dig Date: 7/5/11

Operator Name: Tengasco, Inc. Lease Name: McElhane A Well #: 3  
 Sec. 3 Twp. 9 S. R. 18  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 <input checked="" 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 checked="" type="checkbox"/> No Electric Log Run <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Submitted Electronically <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>(If no, Submit Copy)</i>  List All E. Logs Run: <b>Dual Induction, Neutron Density/PE, Micro, CBL/GR</b>	<input checked="" type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  <table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:60%;">Name</td> <td style="width:20%;">Top</td> <td style="width:20%;">Datum</td> </tr> <tr> <td>Anhydrite</td> <td>1389</td> <td>+619</td> </tr> <tr> <td>Topeka</td> <td>2925</td> <td>-917</td> </tr> <tr> <td>Heebner</td> <td>3138</td> <td>-1130</td> </tr> <tr> <td>Toronto</td> <td>3158</td> <td>-1150</td> </tr> <tr> <td>Lansing</td> <td>3178</td> <td>-1170</td> </tr> <tr> <td>BKC</td> <td>3399</td> <td>-1391</td> </tr> <tr> <td>Arbuckle</td> <td>3440</td> <td>-1432</td> </tr> </table>	Name	Top	Datum	Anhydrite	1389	+619	Topeka	2925	-917	Heebner	3138	-1130	Toronto	3158	-1150	Lansing	3178	-1170	BKC	3399	-1391	Arbuckle	3440	-1432
Name	Top	Datum																							
Anhydrite	1389	+619																							
Topeka	2925	-917																							
Heebner	3138	-1130																							
Toronto	3158	-1150																							
Lansing	3178	-1170																							
BKC	3399	-1391																							
Arbuckle	3440	-1432																							

CASING RECORD <input checked="" type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
Surface	12-1/4"	8-5/8"	23#	260	Com	170	3% CC 2% Gel
Production	7-7/8"	5-1/2"	14#	3512'	ASC	150	10% Salt, 2% Gel

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

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
6	3275-78'	RECEIVED JUL 01 2011 KCC WICHITA	
	5-1/2" CIBP @ 3271'		
6	3262-67'	250 gal 15% MA	

TUBING RECORD:	Size: 2-7/8"	Set At: 3260'	Packer At:	Liner Run: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumed Production, SWD or ENHR. 4-18-11		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. 45	Gas Mcf	Water Bbls. 0	Gas-Oil Ratio 

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input checked="" type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: LKC 'C' 3262-67'
---	--	--

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

SERVICE POINT: Russell

DATE <u>4/12/11</u>	SEC. <u>3</u>	TWP. <u>9</u>	RANGE <u>18</u>	CALLED OUT	ON LOCATION	JOB START <u>10:45 AM</u>	JOB FINISH <u>11:15 AM</u>
LEASE <u>McElharg</u>		WELL # <u>A#3</u>	LOCATION <u>Plainville N to Rd 5</u>		COUNTY <u>Rooks</u>	STATE <u>Ks</u>	
<input checked="" type="radio"/> OLD OR NEW (Circle one)			<u>1/2" 1/8" 5" Wink</u>				

CONTRACTOR Fisher Well Service

OWNER \_\_\_\_\_

TYPE OF JOB Port Collar

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

CASING SIZE 5 1/2 DEPTH 3487

TUBING SIZE 2 3/8 DEPTH 140'

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

TOOL Port Collar DEPTH 1398'

PRES. MAX 1000 psi MINIMUM \_\_\_\_\_

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

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

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

DISPLACEMENT 7661

### EQUIPMENT

PUMP TRUCK # 409 CEMENTER Shane Heath  
HELPER Tony

BULK TRUCK # 481 DRIVER Nick

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

### REMARKS:

Tested tool to 1000 psi.  
Opened P.C. Est. Circulation.  
Mixed 225 sks Cement Circulated  
Closed P.C. tested to 1000 psi  
Released. Ran 4 hrs. Washed  
Clean.  
  
Came out of hole

CEMENT AMOUNT ORDERED 225 6% ~~10%~~ Lite

1/4 #1-1/2

COMMON \_\_\_\_\_

POZMIX \_\_\_\_\_

GEL \_\_\_\_\_

CHLORIDE \_\_\_\_\_

ASC \_\_\_\_\_

Lite 225 @ 14.50 3262.50

Flo Seal 56 # @ 2.70 151.20

\_\_\_\_\_ @ \_\_\_\_\_

\_\_\_\_\_ @ \_\_\_\_\_

\_\_\_\_\_ @ \_\_\_\_\_

\_\_\_\_\_ @ \_\_\_\_\_

HANDLING 236 @ 2.25 531.00

MILEAGE 111 sks/mile 1168.20

TOTAL 5112.90

### SERVICE

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

PUMP TRUCK CHARGE \_\_\_\_\_ 1925.00

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

MILEAGE 90 @ 7.00 630.00

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

Run 90 @ 4.00 360.00

\_\_\_\_\_ @ \_\_\_\_\_

TOTAL 2915.00

### PLUG & FLOAT EQUIPMENT

\_\_\_\_\_ @ \_\_\_\_\_  
 \_\_\_\_\_ @ \_\_\_\_\_  
 \_\_\_\_\_ @ \_\_\_\_\_  
 \_\_\_\_\_ @ \_\_\_\_\_

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

Thanks!

To Allied Cementing Co., LLC.  
 You are hereby requested to rent cementing equipment

# ALLIED CEMENTING CO., LLC. 034016

P.O. BOX 31  
RUSSELL, KANSAS 67665

SERVICE POINT:

Russell

DATE <u>3/28/11</u>	SEC. <u>3</u>	TWP. <u>9 S</u>	RANGE <u>18 W</u>	CALLED OUT	ON LOCATION	JOB START <u>5:15 P</u>	JOB FINISH <u>5:45 P</u>
LEASEE <u>McFhang</u>	WELL # <u>A #3</u>	LOCATION <u>Plainville 6 ON 1/2 W</u>			COUNTY <u>Rooks</u>	STATE <u>KS</u>	
OLD OR NEW (Circle one) <u>NEW</u>		<u>1/2 S Wichita</u>					

CONTRACTOR American Eagle Ry #2 OWNER

TYPE OF JOB Surface Sol

HOLE SIZE 12 1/8 T.D. 263

CASING SIZE 8 5/8 DEPTH 263.37

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG 15

PERFS

DISPLACEMENT 15.8/661

**EQUIPMENT**

PUMP TRUCK CEMENTER Shane

# 417 HELPER Tony

BULK TRUCK

# 473-187 DRIVER Kevin W.

BULK TRUCK

# DRIVER

**REMARKS:**

Ran 6 JS + Candy JS.

Est Circulation.

Mixed 170 sks.

Cement Circulated.

CHARGE TO: Tengasco Inc.

STREET

CITY STATE ZIP

To Allied Cementing Co., LLC.

You are hereby requested to rent cementing equipment

**CEMENT**

AMOUNT ORDERED 170 Con 39 cc

28 Con

COMMON 170 @ 16.25 2762.50

POZMIX @

GEL 3 @ 21.25 63.75

CHLORIDE 6 @ 58.20 349.20

ASC @

RECEIVED

JUL 01 2011

KCC WICHITA

HANDLING 179 @ 2.25 402.75

MILEAGE 11/50/mile 984.50

TOTAL 4862.70

**SERVICE**

DEPTH OF JOB

PUMP TRUCK CHARGE 1125.00

EXTRA FOOTAGE @

MILEAGE 100 @ 7.00 700.00

MANIFOLD @

@

Con 2.100 @ 4.00 400.00

TOTAL 2225.00

**PLUG & FLOAT EQUIPMENT**

@

@

@

@

1357.54

# 57

*Thanks!*

# ALLIED CEMENTING CO., LLC. 039576

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

SERVICE POINT:  
Russell

DATE <u>4/9/11</u>	SEC <u>3</u>	TWP <u>19</u>	RANGE <u>18</u>	CALLED OUT	ON LOCATION	JOB START	JOB FINISH
LEASE <u>McElhoney</u>	WELL # <u>A#3</u>	LOCATION <u>Plainville 6 N 1/2 W 1/4 S</u>			COUNTY <u>Rock</u>	STATE <u>Ks</u>	
OLD OR NEW (Circle one) <u>NEW</u>			<u>Wint.</u>				

CONTRACTOR American Eagle Rig #3  
 TYPE OF JOB Production String  
 HOLE SIZE 5 7/8 T.D. 3515  
 CASING SIZE 5 1/2 14# DEPTH 3510'  
 TUBING SIZE \_\_\_\_\_ DEPTH \_\_\_\_\_  
 DRILL PIPE \_\_\_\_\_ DEPTH \_\_\_\_\_  
 TOOL Port Collar DEPTH 1406  
 PRES. MAX \_\_\_\_\_ MINIMUM \_\_\_\_\_  
 MEAS. LINE \_\_\_\_\_ SHOE JOINT 20.27  
 CEMENT LEFT IN CSG. 20.27  
 PERFS. \_\_\_\_\_  
 DISPLACEMENT 85,27661

OWNER \_\_\_\_\_  
 CEMENT  
 AMOUNT ORDERED 180 ASC 107 Sol  
22 Gal  
500 Gal WFR-2

COMMON	@		
POZMIX	@		
GEL	@	<u>3</u>	<u>21.25</u>
CHLORIDE	@		
ASC	@	<u>180</u>	<u>19.00</u>
	@		<u>3420.00</u>

EQUIPMENT  
 PUMP TRUCK CEMENTER Shane Heath  
 # 417 HELPER Tony  
 BULK TRUCK  
 # 410 DRIVER Todd  
 BULK TRUCK  
 # \_\_\_\_\_ DRIVER \_\_\_\_\_

WFR-2	500	@	<u>1.27</u>	<u>635.00</u>
HANDLING	<u>183</u>	@	<u>2.25</u>	<u>411.75</u>
MILEAGE	<u>111.5</u>	@		<u>1006.50</u>
			TOTAL	<u>5532.00</u>

REMARKS:  
Ret Hole 30 sks cement @ 3489.73  
Mixed 500 Gal WFR-2, Mixed 150 sks  
down 5 1/2. Shut down washed  
pump + Cines. Displaced 85,27661  
Control Plug @ 1500 psi  
Float Held 1

SERVICE

DEPTH OF JOB			
PUMP TRUCK CHARGE			<u>2125.00</u>
EXTRA FOOTAGE	@		
MILEAGE	@	<u>100</u>	<u>7.00</u>
MANIFOLD	@		
<u>Cam</u>	@	<u>100</u>	<u>4.00</u>
			TOTAL

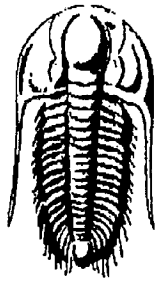
CHARGE TO: Texasco INC.  
 STREET \_\_\_\_\_  
 CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

Thanks!

To Allied Cementing Co., LLC.  
 You are hereby requested to rent cementing equipment

PLUG & FLOAT EQUIPMENT

TRP.			<u>57.00</u>
Port Collar	@		<u>1820.00</u>
5- Centralizers	@	<u>34.00</u>	
1- Basket	@		<u>236.00</u>
Guide Shoe	@		<u>168.00</u>



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **Tengasco Inc**

Po Box 458  
Hays KS 67601

ATTN: Rod Tremblay

**3-9s-18w Rooks KS**

**McElhaney A #3**

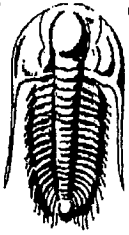
Start Date: 2011.03.31 @ 17:18:14

End Date: 2011.03.31 @ 23:17:14

Job Ticket #: 042875      DST #: 1

RECEIVED  
JUL 01 2011  
KCC WICHITA

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



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Tengasco Inc

**McElhane A #3**

Po Box 458  
Hays KS 67601

**3-9s-18w Rooks KS**

Job Ticket: 042875      DST#: 1

ATTN: Rod Tremblay

Test Start: 2011.03.31 @ 17:18:14

## GENERAL INFORMATION:

Formation: **Topeka**  
Deviated: No Whipstock:                      ft (KB)  
Time Tool Opened: 18:49:14  
Time Test Ended: 23:17:14

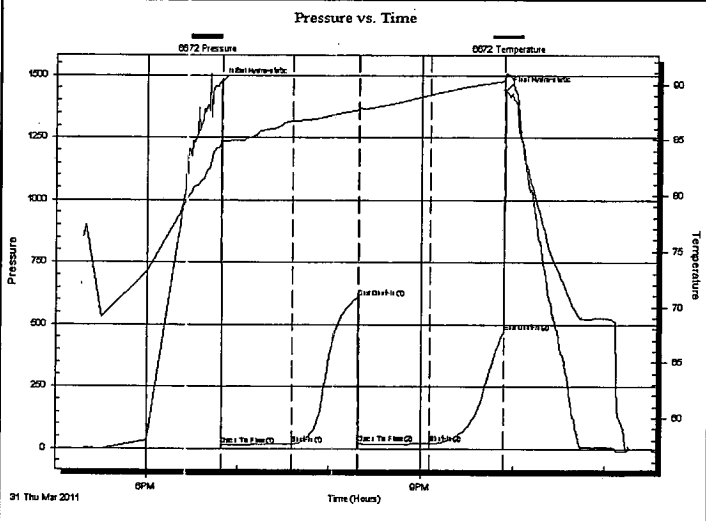
Test Type: Conventional Bottom Hole  
Tester: Jeff Brown  
Unit No: 44

Interval: **3071.00 ft (KB) To 3095.00 ft (KB) (TVD)**  
Total Depth: **3095.00 ft (KB) (TVD)**  
Hole Diameter: **7.88 inches** Hole Condition: Good

Reference Elevations: **2008.00 ft (KB)**  
**2003.00 ft (CF)**  
KB to GR/CF: **5.00 ft**

**Serial #: 6672**      Inside  
Press@RunDepth: **21.46 psig @ 3072.00 ft (KB)**      Capacity: **8000.00 psig**  
Start Date: **2011.03.31**      End Date: **2011.03.31**      Last Calib.: **2011.03.31**  
Start Time: **17:18:15**      End Time: **23:17:14**      Time On Btm: **2011.03.31 @ 18:48:44**  
Time Off Btm: **2011.03.31 @ 21:54:14**

**TEST COMMENT:** IFP-Weak blow built to 1 1/8 in  
ISI-Dead no blow back  
FFP-Weak blow built to 3/4 in  
FSI-Dead no blow back



## PRESSURE SUMMARY

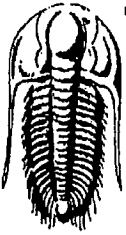
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1472.97	84.95	Initial Hydro-static
1	14.51	84.63	Open To Flow (1)
47	18.28	86.68	Shut-In(1)
91	611.12	87.66	End Shut-In(1)
91	23.21	87.64	Open To Flow (2)
137	21.46	89.05	Shut-In(2)
185	471.53	90.30	End Shut-In(2)
186	1441.24	90.88	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
10.00	HOCM 25%O75%M	0.14

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

TOOL DIAGRAM

Tengasco Inc

McElhanev A #3

Po Box 458  
Hays KS 67601

3-9s-18w Rooks KS

Job Ticket: 042875

DST#: 1

ATTN: Rod Tremblay

Test Start: 2011.03.31 @ 17:18:14

### Tool Information

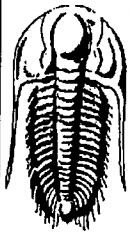
Drill Pipe:	Length: 3066.00 ft	Diameter: 3.80 inches	Volume: 43.01 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 42000.00 lb
			<u>Total Volume: 43.01 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 34000.00 lb
Depth to Top Packer:	3071.00 ft			Final 35000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	24.00 ft			
Tool Length:	44.00 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			3052.00	
Shut In Tool	5.00			3057.00	
Hydraulic tool	5.00			3062.00	
Packer	4.00			3066.00	20.00 Bottom Of Top Packer
Packer	5.00			3071.00	
Stubb	1.00			3072.00	
Recorder	0.00	6672	Inside	3072.00	
Recorder	0.00	8321	Outside	3072.00	
Perforations	20.00			3092.00	
Bullnose	3.00			3095.00	24.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>44.00</b>				





**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Tengasco Inc

McElhaney A #3

Po Box 458  
Hays KS 67601

3-9s-18w Rooks KS

Job Ticket: 042875

DST#: 1

ATTN: Rod Tremblay

Test Start: 2011.03.31 @ 17:18:14

**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: 61.00 sec/qt

Cushion Volume:

bbf

Water Loss: 7.18 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2700.00 ppm

Filter Cake: inches

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbf
10.00	HOCM 25% O75%M	0.140

Total Length: 10.00 ft      Total Volume: 0.140 bbf

Num Fluid Samples: 0

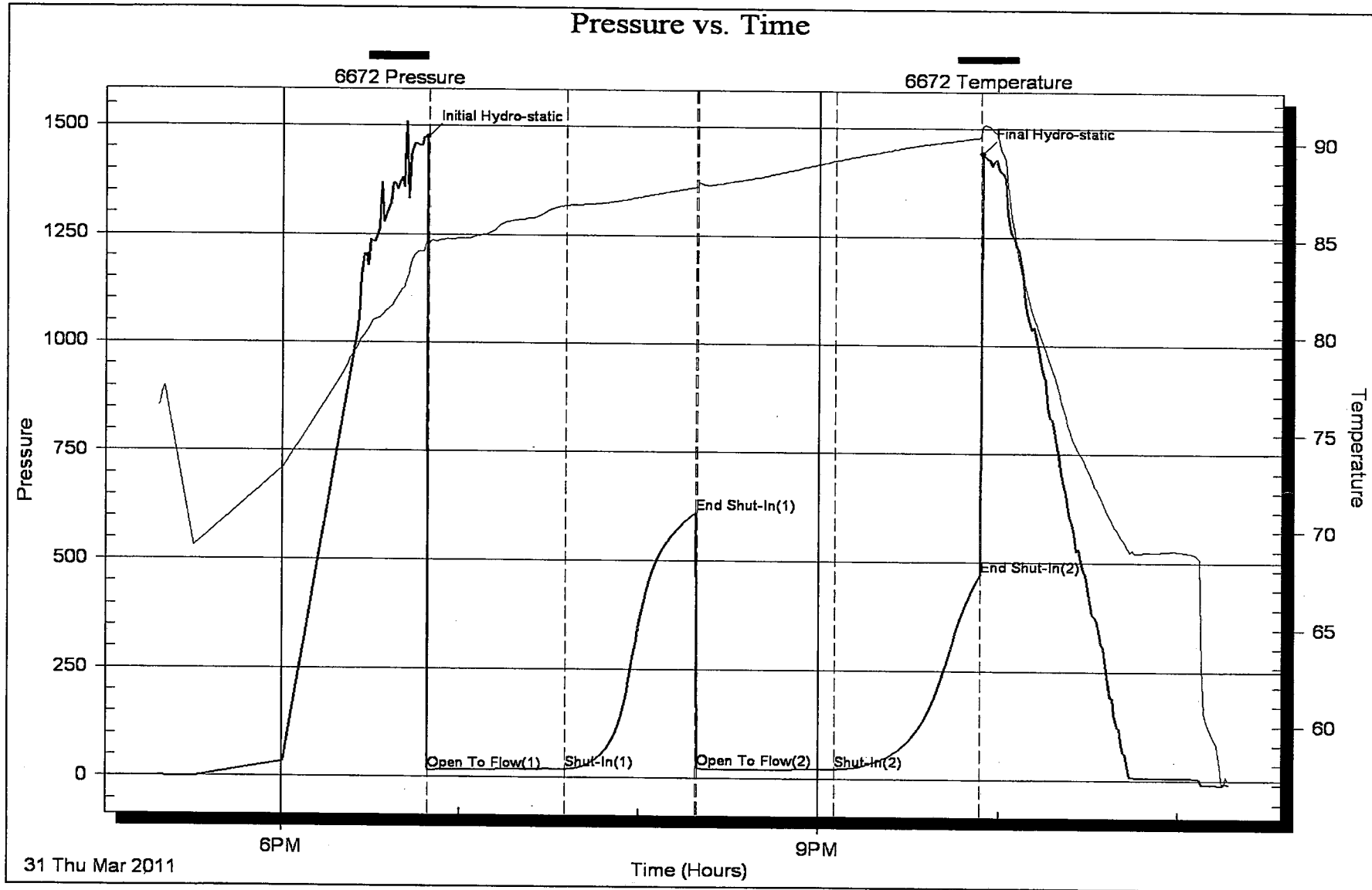
Num Gas Bombs: 0

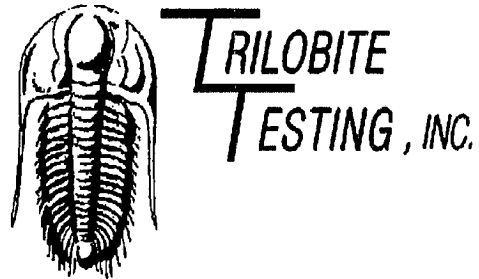
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





## DRILL STEM TEST REPORT

Prepared For: **Tengasco Inc**

Po Box 458  
Hays KS 67601

ATTN: Rod Tremblay

**3-9s-18w Rooks KS**

**McElhaney A #3**

Start Date: 2011.04.01 @ 13:16:39

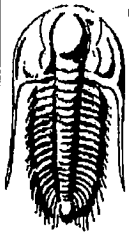
End Date: 2011.04.01 @ 18:26:24

Job Ticket #: 042601                      DST #: 2

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Tengasco Inc

**McElhanev A #3**

Po Box 458  
Hays KS 67601

**3-9s-18w Rooks KS**

Job Ticket: 042601

**DST#: 2**

ATTN: Rod Tremblay

Test Start: 2011.04.01 @ 13:16:39

## GENERAL INFORMATION:

Formation: **LKC-C**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:43:24

Time Test Ended: 18:26:24

Test Type: Conventional Bottom Hole

Tester: Jeff Brown

Unit No: 44

Interval: **3196.00 ft (KB) To 3224.00 ft (KB) (TVD)**

Reference Elevations: 2008.00 ft (KB)

Total Depth: 3224.00 ft (KB) (TVD)

2003.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

**Serial #: 6672**

Inside

Press@RunDepth: 20.59 psig @ 3201.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.04.01

End Date:

2011.04.01

Last Calib.: 2011.04.01

Start Time: 13:16:40

End Time:

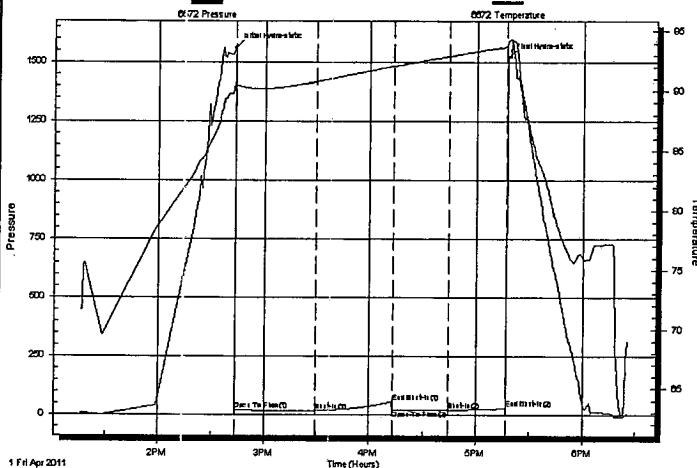
18:26:24

Time On Btm: 2011.04.01 @ 14:43:09

Time Off Btm: 2011.04.01 @ 17:17:24

**TEST COMMENT:** IFP-Weak blow built to 1/4 in  
ISI-Dead no blow back  
FFP-Weak surface blow died out in 12 min  
FSI-Dead no blow back

Pressure vs. Time



## PRESSURE SUMMARY

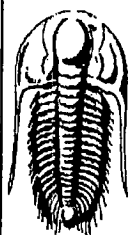
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1560.31	90.69	Initial Hydro-static
1	19.92	90.25	Open To Flow (1)
47	18.94	90.78	Shut-In(1)
90	56.60	92.07	End Shut-In(1)
91	22.81	92.06	Open To Flow (2)
122	20.59	92.92	Shut-In(2)
154	29.39	93.71	End Shut-In(2)
155	1519.56	94.15	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
3.00	SOCM 5% O95%M	0.04

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Tengasco Inc

**McElhanev A #3**

Po Box 458  
Hays KS 67601

**3-9s-18w Rooks KS**

Job Ticket: 042601

**DST#: 2**

ATTN: Rod Tremblay

Test Start: 2011.04.01 @ 13:16:39

### Tool Information

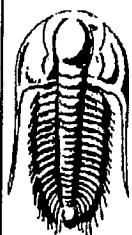
Drill Pipe:	Length: 3191.00 ft	Diameter: 3.80 inches	Volume: 44.76 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 39000.00 lb
			<u>Total Volume: 44.76 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 35000.00 lb
Depth to Top Packer:	3196.00 ft			Final 35000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	28.00 ft			
Tool Length:	48.00 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			3177.00	
Shut In Tool	5.00			3182.00	
Hydraulic tool	5.00			3187.00	
Packer	4.00			3191.00	20.00 Bottom Of Top Packer
Packer	5.00			3196.00	
Stubb	1.00			3197.00	
Perforations	4.00			3201.00	
Recorder	0.00	6672	Inside	3201.00	
Recorder	0.00	8321	Outside	3201.00	
Perforations	20.00			3221.00	
Bullnose	3.00			3224.00	28.00 Bottom Packers & Anchor

**Total Tool Length: 48.00**



**TRILOBITE**  
TESTING, INC

# DRILL STEM TEST REPORT

FLUID SUMMARY

Tengasco Inc

McElhaney A #3

Po Box 458  
Hays KS 67601

3-9s-18w Rooks KS

Job Ticket: 042601

DST#: 2

ATTN: Rod Tremblay

Test Start: 2011.04.01 @ 13:16:39

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length: ft

Water Salinity:

ppm

Viscosity: 52.00 sec/qt

Cushion Volume: bbl

Water Loss: 9.58 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
3.00	SOCM 5%O95%M	0.042

Total Length: 3.00 ft      Total Volume: 0.042 bbl

Num Fluid Samples: 0

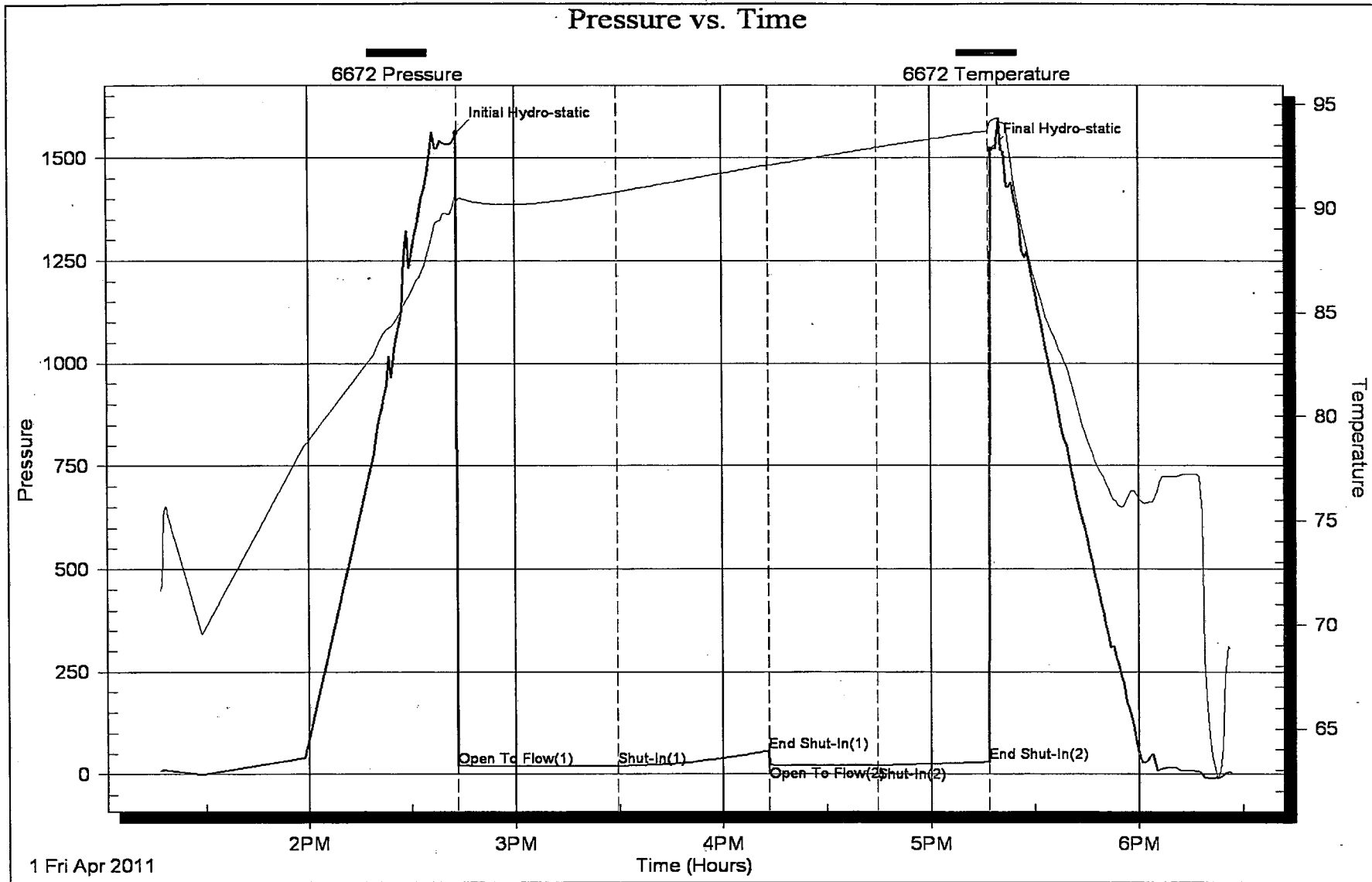
Num Gas Bombs: 0

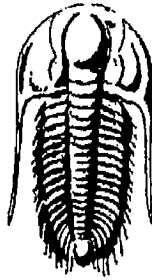
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





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

## DRILL STEM TEST REPORT

Prepared For: **Tengasco Inc**

Po Box 458  
Hays KS 67601

ATTN: Rod Tremblay

**3-9s-18w Rooks KS**

**McElhaney A #3**

Start Date: 2011.04.02 @ 02:12:39

End Date: 2011.04.02 @ 09:50:39

Job Ticket #: 042602          DST #: 3

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

Tengasco Inc

McElhaney A #3

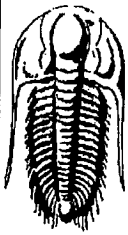
3-9s-18w Rooks KS

DST # 3

LKC-D-E-F-G

2011.04.02





**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

Tengasco Inc

**McElhaney A #3**

Po Box 458  
Hays KS 67601

**3-9s-18w Rooks KS**

Job Ticket: 042602

**DST#: 3**

ATTN: Rod Tremblay

Test Start: 2011.04.02 @ 02:12:39

### GENERAL INFORMATION:

Formation: **LKC-D-E-F-G**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:07:39

Time Test Ended: 09:50:39

Test Type: Conventional Bottom Hole

Tester: Jeff Brown

Unit No: 44

Interval: **3230.00 ft (KB) To 3268.00 ft (KB) (TVD)**

Reference Elevations: 2008.00 ft (KB)

Total Depth: 3268.00 ft (KB) (TVD)

2003.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

**Serial #: 6672** Inside

Press@RunDepth: 476.87 psig @ 3237.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.04.02

End Date: 2011.04.02

Last Calib.: 2011.04.02

Start Time: 02:12:40

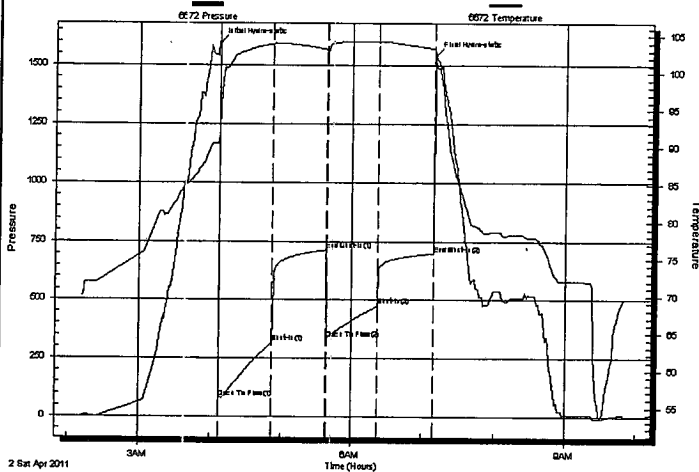
End Time: 09:50:39

Time On Btm: 2011.04.02 @ 04:07:24

Time Off Btm: 2011.04.02 @ 07:10:09

**TEST COMMENT:** IFP-Strong blow BOB in 1 1/4 min  
ISI-Good blow back BOB in 12 1/2 min  
FFP-Strong blow BOB in 3 1/2 min  
FSI-Good blow back BOB in 18 1/2 min

Pressure vs. Time



### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1595.04	91.48	Initial Hydro-static
1	80.22	91.61	Open To Flow (1)
45	317.15	103.89	Shut-In(1)
91	712.87	103.25	End Shut-In(1)
91	334.27	102.86	Open To Flow (2)
136	476.87	104.17	Shut-In(2)
182	698.91	103.32	End Shut-In(2)
183	1541.84	102.64	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
315.00	MCXGO 10%N50%G40%O	4.42
1008.00	Gassy Oil 30%G70%O	14.14
0.00	1450 Gip	0.00

### Gas Rates

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



**TRILOBITE**  
TESTING, INC

# DRILL STEM TEST REPORT

TOOL DIAGRAM

Tengasco Inc

McElhanev A #3

Po Box 458  
Hays KS 67601

3-9s-18w Rooks KS

Job Ticket: 042602

DST#: 3

ATTN: Rod Tremblay

Test Start: 2011.04.02 @ 02:12:39

## Tool Information

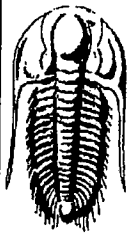
Drill Pipe:	Length: 3221.00 ft	Diameter: 3.80 inches	Volume: 45.18 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 45000.00 lb
			<u>Total Volume: 45.18 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	11.00 ft			String Weight: Initial 35000.00 lb
Depth to Top Packer:	3230.00 ft			Final 41000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	38.00 ft			
Tool Length:	58.00 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			3211.00	
Shut In Tool	5.00			3216.00	
Hydraulic tool	5.00			3221.00	
Packer	4.00			3225.00	20.00 Bottom Of Top Packer
Packer	5.00			3230.00	
Perforations	6.00			3236.00	
Stubb	1.00			3237.00	
Recorder	0.00	6672	Inside	3237.00	
Recorder	0.00	8321	Outside	3237.00	
Perforations	28.00			3265.00	
Bullnose	3.00			3268.00	38.00 Bottom Packers & Anchor

**Total Tool Length: 58.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Tengasco Inc

**McElhane A #3**

Po Box 458  
Hays KS 67601

**3-9s-18w Rooks KS**

Job Ticket: 042602

**DST#: 3**

ATTN: Rod Tremblay

Test Start: 2011.04.02 @ 02:12:39

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

38 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbf

Water Loss: 9.59 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 bbf
315.00	MCGO 10%M50%G40%O	4.419
1008.00	Gassy Oil 30%G70%O	14.140
0.00	1450 Gip	0.000

Total Length: 1323.00 ft      Total Volume: 18.559 bbf

Num Fluid Samples: 0

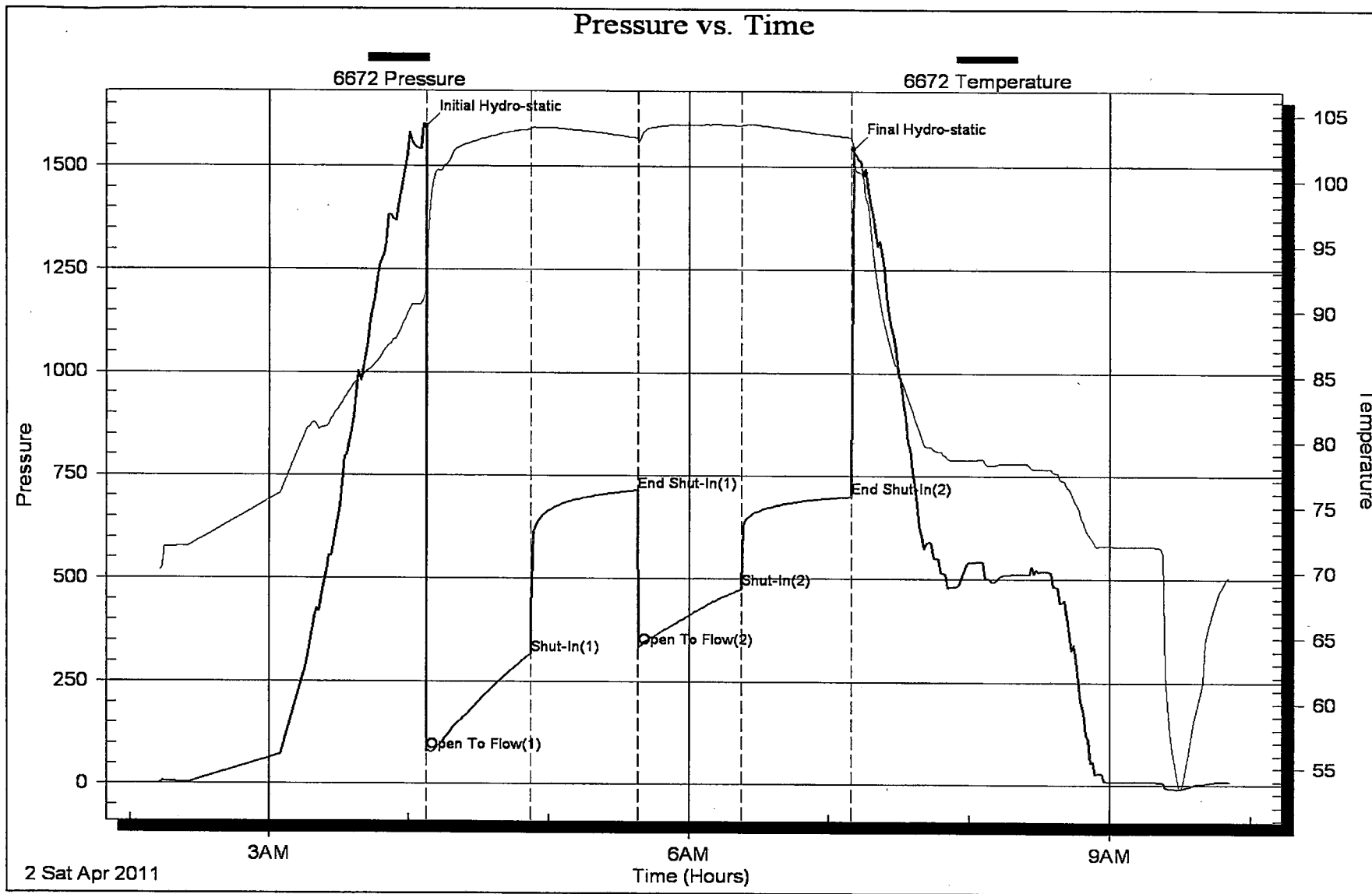
Num Gas Bombs: 0

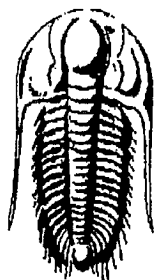
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





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

## DRILL STEM TEST REPORT

Prepared For: **Tengasco Inc**

Po Box 458  
Hays KS 67601

ATTN: Rod Tremblay

**3-9s-18w Rooks KS**

**McElhaney A #3**

Start Date: 2011.04.02 @ 18:05:46

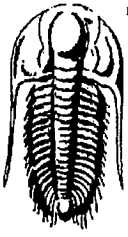
End Date: 2011.04.03 @ 00:46:31

Job Ticket #: 04203                      DST #: 4

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Tengasco Inc

**McElhane A #3**

Po Box 458  
Hays KS 67601

**3-9s-18w Rooks KS**

Job Ticket: 04203

DST#: 4

ATTN: Rod Tremblay

Test Start: 2011.04.02 @ 18:05:46

## GENERAL INFORMATION:

Formation: **LKC-H-I**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:41:46

Time Test Ended: 00:46:31

Test Type: Conventional Bottom Hole

Tester: Jeff Brown

Unit No: 44

Interval: **3306.00 ft (KB) To 3336.00 ft (KB) (TVD)**

Total Depth: 3336.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2008.00 ft (KB)

2003.00 ft (CF)

KB to GR/CF: 5.00 ft

**Serial #: 6672** Inside

Press@RunDepth: 54.05 psig @ 3308.00 ft (KB)

Start Date: 2011.04.02

End Date: 2011.04.03

Start Time: 18:05:47

End Time: 00:46:31

Capacity: 8000.00 psig

Last Calib.: 2011.04.03

Time On Btm: 2011.04.02 @ 19:41:31

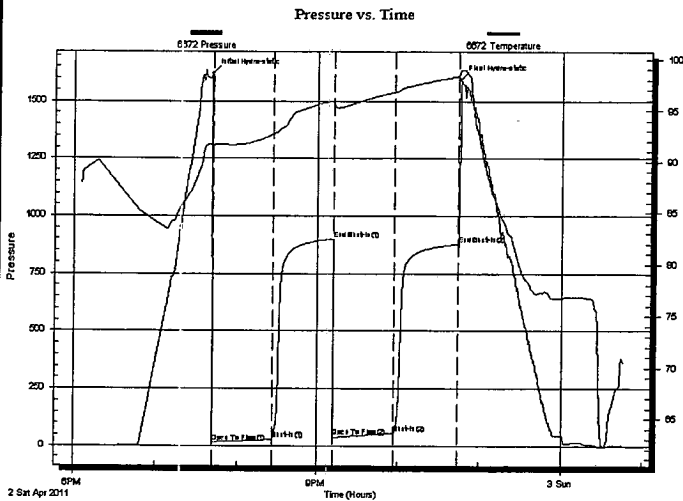
Time Off Btm: 2011.04.02 @ 22:45:31

**TEST COMMENT:** IFP-Good blow BOB in 34 1/2 min

ISI-Dead no blow back

FFP-Good blow BOB in 42 min

FSI-Dead no blow back



## PRESSURE SUMMARY

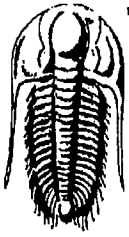
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1621.25	91.95	Initial Hydro-static
1	16.54	91.41	Open To Flow (1)
46	28.57	92.72	Shut-In(1)
90	898.58	95.90	End Shut-In(1)
91	40.15	95.55	Open To Flow (2)
136	54.05	96.81	Shut-In(2)
183	877.30	98.36	End Shut-In(2)
184	1595.76	98.97	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
63.00	HOCWM 35%O5%W65%M	0.88
25.00	Gassy Oil 25%G75%O	0.35

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

Tengasco Inc

**McElhaney A #3**

Po Box 458  
Hays KS 67601

**3-9s-18w Rooks KS**

Job Ticket: 04203

**DST#: 4**

ATTN: Rod Tremblay

Test Start: 2011.04.02 @ 18:05:46

**Tool Information**

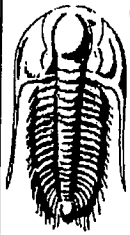
Drill Pipe:	Length: 3314.00 ft	Diameter: 3.80 inches	Volume: 46.49 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 40000.00 lb
			<b>Total Volume: 46.49 bbl</b>	Tool Chased 0.00 ft
Drill Pipe Above KB:	28.00 ft			String Weight: Initial 34000.00 lb
Depth to Top Packer:	3306.00 ft			Final 37000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	30.00 ft			
Tool Length:	50.00 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			3287.00	
Shut In Tool	5.00			3292.00	
Hydraulic tool	5.00			3297.00	
Packer	4.00			3301.00	20.00 Bottom Of Top Packer
Packer	5.00			3306.00	
Perforations	1.00			3307.00	
Stubb	1.00			3308.00	
Recorder	0.00	6672	Inside	3308.00	
Recorder	0.00	8321	Outside	3308.00	
Perforations	25.00			3333.00	
Bullnose	3.00			3336.00	30.00 Bottom Packers & Anchor

**Total Tool Length: 50.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Tengasco Inc

**McElhanev A #3**

Po Box 458  
Hays KS 67601

**3-9s-18w Rooks KS**

Job Ticket: 04203

**DST#: 4**

ATTN: Rod Tremblay

Test Start: 2011.04.02 @ 18:05:46

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

38 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.59 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 bbbl
63.00	HOCWM 35%O5%W65%M	0.884
25.00	Gassy Oil 25%G75%O	0.351

Total Length:

88.00 ft

Total Volume:

1.235 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



