



KANSAS CORPORATION COMMISSION 1165117  
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 # \_\_\_\_\_

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: \_\_\_\_\_



1165117

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
---	---

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> <input type="checkbox"/> Other <i>(Specify)</i> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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Form	ACO1 - Well Completion
Operator	Messenger Petroleum, Inc.
Well Name	Karlin Trust 1
Doc ID	1165117

Tops

Name	Top	Datum
Anhy	1397	+697
Howard	3055	-964
Topeka	3108	-1017
Heebner	3367	-1276
Lansing	3416	-1325
BKC	3643	-1552
Congl	3652	-1561
Arb	3737	-1646
LTD	3821	-1730

# QUALITY WELL SERVICE, INC.

5953

Federal Tax I.D. # 481187368

Office  
 Heath's Cell 620-727-3410  
 Office / Fax 620-672-3663

Home Office 324 Simpson St., Pratt, KS 67124

Rich's Cell 620-727-3409  
 Brady's Cell 620-727-6964

Date	9-30-13	Sec.	17	Twp.	13	Range	13	County	Ellis	State	KS	On Location	7:30 AM	Finish	12:00
Lease	Karl's Trust			Well No.	41 + 8			Location	Hassks 1140 Alderson Rd and						
Contractor	Southland Drilling														
Type Job	Surface														
Hole Size	12 1/4		T.D.	266											
Csg.	85/8 23'		Depth	266											
Tbg. Size			Depth												
Tool			Depth												
Cement Left in Csg.			Shoe Joint	20'											
Meas Line			Displace	15.7 BM											
EQUIPMENT															
Pumptrk	No.	3		SCAN											
Bulktrk	No.	9		CHRD											
Bulktrk	No.			TODD											
Pickup	No.														
JOB SERVICES & REMARKS															
Rat Hole	Salt														
Mouse Hole	Flowseal														
Centralizers	Kol-Seal														
Baskets	Mud CLR 48														
DV or Port Collar	CFL-117 or CD110 CAF 38														
Ran	6		24's 85/8 23' CSS		Sand										
Set	2		266'		Handling 179										
				Mileage 3											
FLOAT EQUIPMENT															
Hole up to CSS & Break Circ W/Ling															
Hole & Run 170x Common															
2 1/2" GEL 3 1/2" CL 15" GEL															
SHUT DOWN RELEASE PLS															
LATCH DOWN															
DISC 157 Bbls Total															
Close Valve on CG 11.45 250H															
GOOD CIRC FLOW TOG															
CIR CIRC TO OL															
X MARK															
THINK TOG CIRC SEAT															
Signature <i>[Signature]</i>															
Total Charge															
Tax															
Discount															



# CEMENTING LOG

STAGE NO. \_\_\_\_\_

Date 1-10-13 District Leban-Pool Ticket No. 61933  
 Company Marathon Petroleum Rig 5005610000  
 Lease Field 97459 Well No. 1  
 County Ellis State Ks

Location Highway 1W NW 1/4 N Field \_\_\_\_\_

CASING DATA: Conductor  PTA  Squeeze  Misc   
 Surface  Intermediate  Production  Liner   
 Size \_\_\_\_\_ Type \_\_\_\_\_ Weight \_\_\_\_\_ Collar \_\_\_\_\_

Casing Depths: Top \_\_\_\_\_ Bottom \_\_\_\_\_

Drill Pipe: Size 4 1/2 Weight 16.6 Collars 4-6.5  
 Open Hole: Size 7 1/8 T.D. \_\_\_\_\_ ft. P.B. to \_\_\_\_\_ ft.

CAPACITY FACTORS:  
 Casing: Bbls/Lin. ft. 1.0677 Lin. ft./Bbl. 1570  
 Open Holes: Bbls/Lin. ft. \_\_\_\_\_ Lin. ft./Bbl. \_\_\_\_\_  
 Drill Pipe: Bbls/Lin. ft. .2192 Lin. ft./Bbl. 72.32  
 Annulus: Bbls/Lin. ft. \_\_\_\_\_ Lin. ft./Bbl. \_\_\_\_\_  
 Perforations: From \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Amt. \_\_\_\_\_

COMPANY REPRESENTATIVE \_\_\_\_\_ CEMENTER Justin C

CEMENT DATA:  
 Spacer Type: \_\_\_\_\_ Sks Yield Freshair / mud ft<sup>3</sup>/sk Density 8.34 PPG  
 Amt. \_\_\_\_\_ Sks Yield \_\_\_\_\_ ft<sup>3</sup>/sk Density \_\_\_\_\_ PPG

LEAD: Pump Time \_\_\_\_\_ hrs. Type \_\_\_\_\_ Excess \_\_\_\_\_  
 Amt. \_\_\_\_\_ Sks Yield \_\_\_\_\_ ft<sup>3</sup>/sk Density \_\_\_\_\_ PPG  
 TAIL: Pump Time \_\_\_\_\_ hrs. Type \_\_\_\_\_ Excess \_\_\_\_\_  
 Amt. 272 Sks Yield 1.90 ft<sup>3</sup>/sk Density 14.5 PPG  
 WATER: Lead \_\_\_\_\_ gals/sk Tail \_\_\_\_\_ gals/sk Total \_\_\_\_\_ Bbls

Pump Trucks Used 319-1416 3  
 Bulk Equip. 629-112-Kovach

Float Equip. Manufacturer \_\_\_\_\_ Depth \_\_\_\_\_  
 Shoe Type \_\_\_\_\_ Depth \_\_\_\_\_  
 Float Type \_\_\_\_\_ Depth \_\_\_\_\_  
 Centralizers: Quantity \_\_\_\_\_ Plugs Top \_\_\_\_\_ Btm. \_\_\_\_\_  
 Stage Collars \_\_\_\_\_  
 Special Equip. \_\_\_\_\_  
 Disp. Fluid Type Freshair Amt. \_\_\_\_\_ Bbls Weight 6.44 PPG  
 Mud Type mud Weight 4.22 PPG

TIME	PRESSURES PSI		FLUID PUMPED DATA			REMARKS
	AM/PM	DRILL PIPE CASING	ANNULUS	TOTAL FLUID	Pumped Per Time Period	
						2N Volume - 310.00
						No. 2 gality Radeylog
						Buy 410.12m 11 pipe
						Fill to known Rtg 1 mud
						Backup cement - pump
						1' 3717-505Ks
						2' 1420-354Ks
						3' 320-410 5Ks
						4' 410-10 5Ks
						5' R14-30 5Ks
						6' MH-15 5Ks
						Plog 1200 7:00 AM

# ALLIED OIL & GAS SERVICES, LLC 061933

Federal Tax I.D. # 20-8651475

REMIT TO P.O. BOX 93999  
SOUTH LAKE, TEXAS 76092

SERVICE POINT:

*Georgetown, TX*

DATE <i>10-8-13</i>	SEC. <i>17</i>	TWP. <i>135</i>	RANGE <i>18w</i>	CALLED OUT	ON LOCATION	JOB START 8:30 AM	JOB FINISH 9:30 AM
LEASE <i>Kalin tract</i>	WELL # <i>1</i>	LOCATION <i>Hayes NW 1/4 Sec 18w</i>	COUNTY <i>Ellis</i>	STATE <i>TX</i>			
OLD OR NEW (Circle one)			<i>W into</i>				

CONTRACTOR *Southwind Drilling #8* OWNER \_\_\_\_\_

TYPE OF JOB *Ratney Plug*

HOLE SIZE *7 7/8* T.D. \_\_\_\_\_

CASING SIZE *6 3/8* DEPTH \_\_\_\_\_

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

DRILL PIPE *4 1/2* DEPTH *3717*

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

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

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

CEMENT LEFT IN CSG. *API*

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

DISPLACEMENT *Fleshwater Mud*

EQUIPMENT \_\_\_\_\_

PUMP TRUCK CEMENTER *Dustin Chambers*

# *198* HELPER *Mike Southorn*

BULK TRUCK DRIVER *Kevin Weirbans*

# *1029-112*

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

# \_\_\_\_\_

REMARKS:

*Call hole with Rig Mud*

*1. 3717-50 SKS*

*2. 1420-25 SKS*

*3. 700-100 SKS*

*4. 320-40 SKS*

*5. 40-10 SKS*

*6. BH-30 SKS*

*7. MH-15 SKS plugdown 9:00*

CHARGE TO: *Messinger Petroleum*

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 *X Russell Witt*

SIGNATURE *X Russell Witt*

CEMENT AMOUNT ORDERED *270 SKS 60% chassa*

*40% pos 4% gel 1% lat 10*

COMMON @ \_\_\_\_\_

POZMIX @ \_\_\_\_\_

GEL @ \_\_\_\_\_

CHLORIDE @ \_\_\_\_\_

ASC @ \_\_\_\_\_

HANDLING @ \_\_\_\_\_

MILEAGE @ \_\_\_\_\_

TOTAL \_\_\_\_\_

SERVICE

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

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

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

MILEAGE @ \_\_\_\_\_

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

TOTAL \_\_\_\_\_

PLUG & FLOAT EQUIPMENT

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

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

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

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

TOTAL \_\_\_\_\_

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

TOTAL CHARGES \_\_\_\_\_

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



## DRILL STEM TEST REPORT

Prepared For: **Messenger Petroleum**

525 S. Main St  
Kingmon, KS 67068

ATTN: Jeff Burk

### **Karlie Trust #1**

### **17-13S-18W Ellis,KS**

Start Date: 2013.10.05 @ 00:22:43

End Date: 2013.10.05 @ 06:20:22

Job Ticket #: 54833                      DST #: 1

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

Printed: 2013.10.10 @ 16:49:34



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Messenger Petroleum

**17-13S-18W Ellis,KS**

525 S. Main St  
Kingmon, KS 67068

**Karlie Trust #1**

Job Ticket: 54833

**DST#: 1**

ATTN: Jeff Burk

Test Start: 2013.10.05 @ 00:22:43

## GENERAL INFORMATION:

Formation: **Lansing**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:26:03

Time Test Ended: 06:20:22

Test Type: Conventional Bottom Hole (Initial)

Tester: Tate Lang/ Tim Phill

Unit No: 49

**Interval: 3400.00 ft (KB) To 3430.00 ft (KB) (TVD)**

Reference Elevations: 2091.00 ft (KB)

Total Depth: 3430.00 ft (KB) (TVD)

2082.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 9.00 ft

**Serial #: 8898 Outside**

Press @ Run Depth: 18.74 psig @ 3402.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.10.05 End Date: 2013.10.05

Last Calib.: 2013.10.05

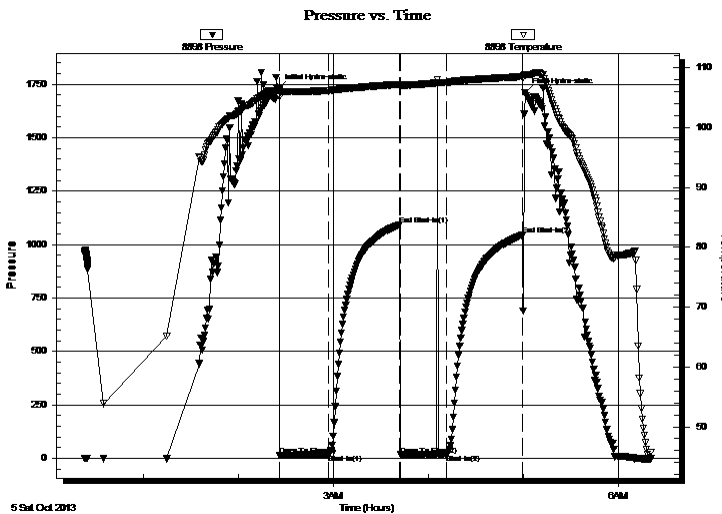
Start Time: 00:22:44 End Time: 06:20:23

Time On Btm: 2013.10.05 @ 02:25:03

Time Off Btm: 2013.10.05 @ 05:01:03

**TEST COMMENT:** IFP-weak surface blow built to 3/4 in.  
ISI-No blow back  
FF-Dead no blow flushed tool surged then died  
FSI-No blow back

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1731.39	106.22	Initial Hydro-static
1	13.48	105.18	Open To Flow (1)
32	17.20	106.18	Shut-In(1)
77	1091.32	107.21	End Shut-In(1)
78	16.74	106.71	Open To Flow (2)
107	18.74	107.55	Shut-In(2)
155	1043.97	108.50	End Shut-In(2)
156	1710.24	108.77	Final Hydro-static

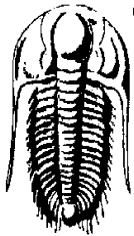
## Recovery

Length (ft)	Description	Volume (bbl)
10.00	Mud 100%	0.14

## Gas Rates

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





**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Messenger Petroleum

**17-13S-18W Ellis,KS**

525 S. Main St  
Kingmon, KS 67068

**Karlie Trust #1**

Job Ticket: 54833

**DST#: 1**

ATTN: Jeff Burk

Test Start: 2013.10.05 @ 00:22:43

## GENERAL INFORMATION:

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Test Type: Conventional Bottom Hole (Initial)

Tester: Tate Lang/ Tim Phill

Unit No: 49

Interval: **3400.00 ft (KB) To 3430.00 ft (KB) (TVD)**

Reference Elevations: 2091.00 ft (KB)

Total Depth: 3430.00 ft (KB) (TVD)

2082.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 9.00 ft

**Serial #: 8897 Inside**

Press @ RunDepth: psig @ 3402.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.10.05

End Date:

2013.10.05

Last Calib.:

2013.10.05

Start Time: 00:22:15

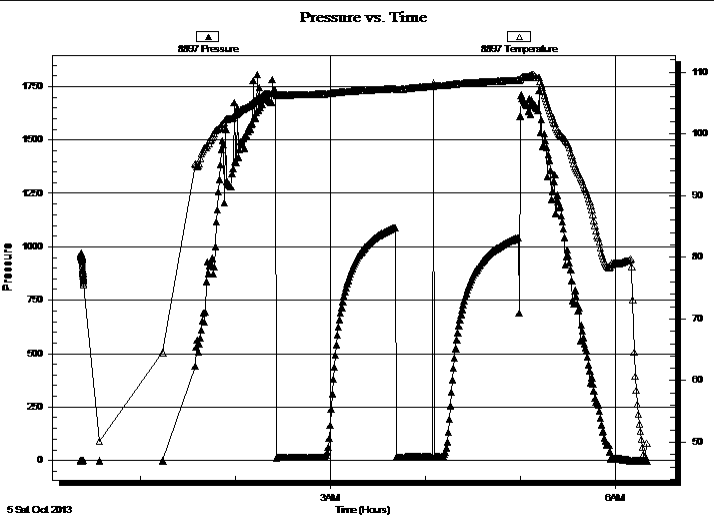
End Time:

06:19:54

Time On Btm:

Time Off Btm:

**TEST COMMENT:** IFP-weak surface blow built to 3/4 in.  
ISI-No blow back  
FF-Dead no blow flushed tool surged then died  
FSI-No blow back



## PRESSURE SUMMARY

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

## Recovery

Length (ft)	Description	Volume (bbl)
10.00	Mud 100%	0.14

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Messenger Petroleum

**17-13S-18W Ellis,KS**

525 S. Main St  
Kingmon, KS 67068

**Karlie Trust #1**

Job Ticket: 54833

**DST#: 1**

ATTN: Jeff Burk

Test Start: 2013.10.05 @ 00:22:43

## Tool Information

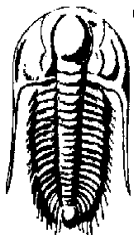
Drill Pipe:	Length: 3389.00 ft	Diameter: 3.80 inches	Volume: 47.54 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose:	48000.00 lb
			<u>Total Volume: 47.54 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	14.00 ft			String Weight: Initial	45000.00 lb
Depth to Top Packer:	3400.00 ft			Final	45000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	30.00 ft				
Tool Length:	55.00 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			3380.00	
Hydraulic tool	5.00			3385.00	
Jars	5.00			3390.00	
Packer	5.00			3395.00	25.00 Bottom Of Top Packer
Packer	5.00			3400.00	
Stubb	1.00			3401.00	
Perforations	1.00			3402.00	
Recorder	0.00	8897	Inside	3402.00	
Recorder	0.00	8898	Outside	3402.00	
Perforations	25.00			3427.00	
Bullnose	3.00			3430.00	30.00 Bottom Packers & Anchor

**Total Tool Length: 55.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Messenger Petroleum

**17-13S-18W Ellis,KS**

525 S. Main St  
Kingmon, KS 67068

**Karlie Trust #1**

Job Ticket: 54833

**DST#: 1**

ATTN: Jeff Burk

Test Start: 2013.10.05 @ 00:22:43

## 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: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.99 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 800.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	Mud 100%	0.140

Total Length: 10.00 ft      Total Volume: 0.140 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

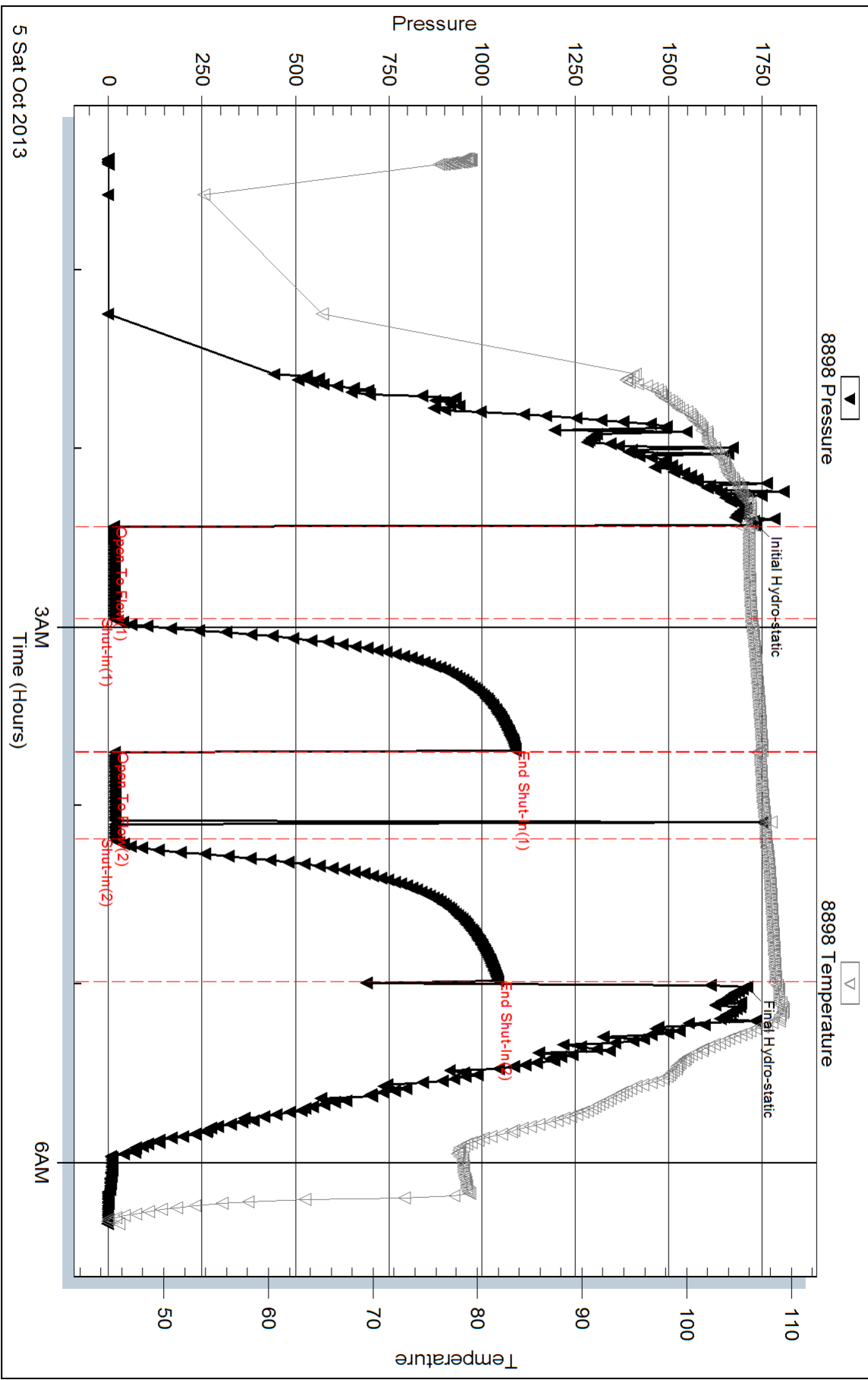
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

### Pressure vs. Time



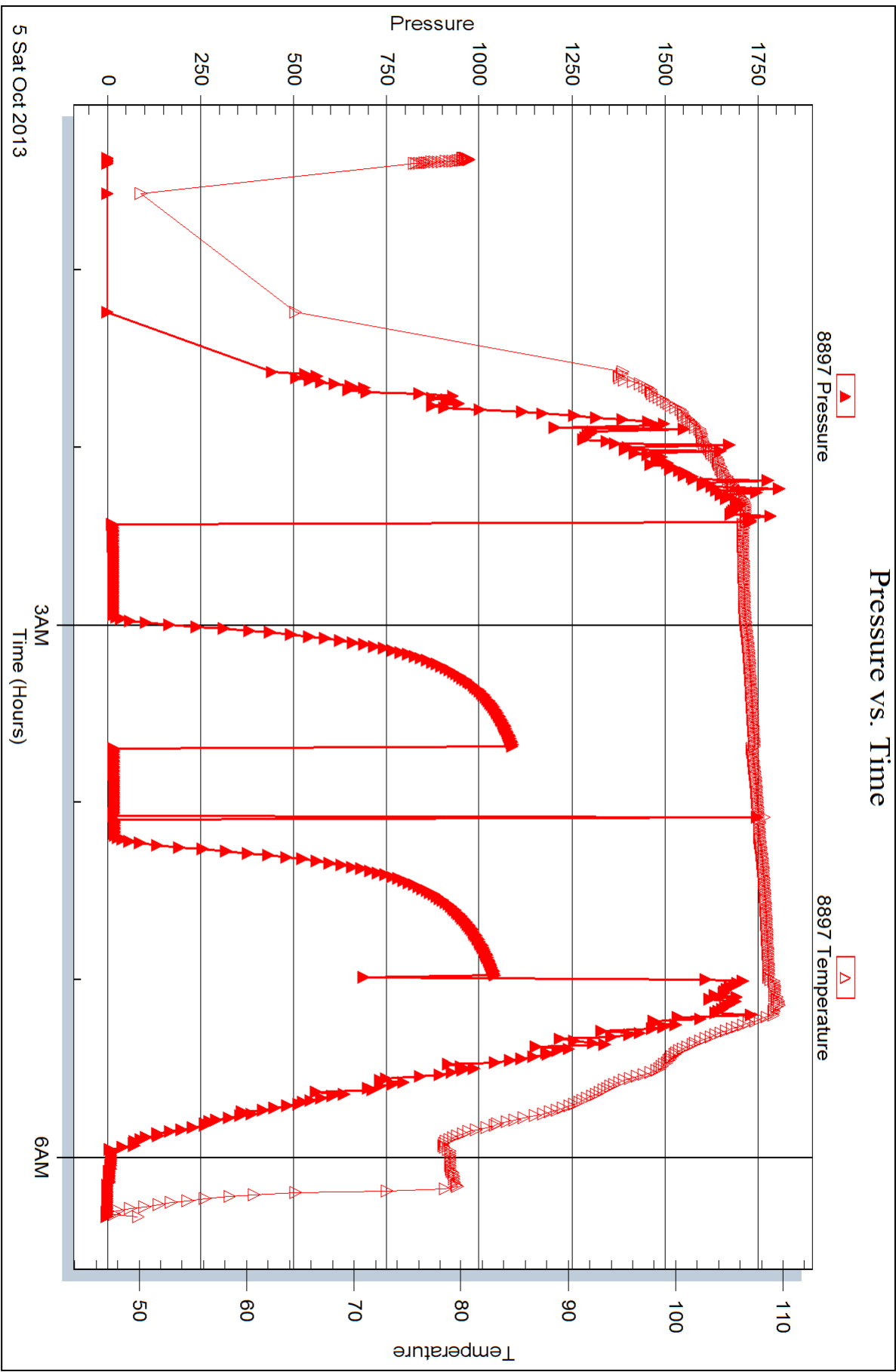
Serial #: 8897

Inside

Messenger Petroleum

Karlie Trust #1

DST Test Number: 1





## DRILL STEM TEST REPORT

Prepared For: **Messenger Petroleum**

525 S. Main St  
Kingmon, KS 67068

ATTN: Jeff Burk

### **Karlie Trust #1**

#### **17-13S-18W Ellis,KS**

Start Date: 2013.10.05 @ 12:50:37

End Date: 2013.10.05 @ 18:18:07

Job Ticket #: 54834                      DST #: 2

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

Printed: 2013.10.10 @ 16:48:44



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Messenger Petroleum

**17-13S-18W Ellis,KS**

525 S. Main St  
Kingmon, KS 67068

**Karlie Trust #1**

Job Ticket: 54834

**DST#: 2**

ATTN: Jeff Burk

Test Start: 2013.10.05 @ 12:50:37

## GENERAL INFORMATION:

Formation: **LKC O**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:52:47

Time Test Ended: 18:18:07

Test Type: Conventional Bottom Hole (Reset)

Tester: Tate Lang/ Tim Phill

Unit No: 49

**Interval: 3438.00 ft (KB) To 3450.00 ft (KB) (TVD)**

Total Depth: 3450.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2091.00 ft (KB)

2082.00 ft (CF)

KB to GR/CF: 9.00 ft

**Serial #: 8898 Outside**

Press @ Run Depth: 14.19 psig @ 3439.00 ft (KB)

Start Date: 2013.10.05

End Date: 2013.10.05

Start Time: 12:50:38

End Time: 18:18:07

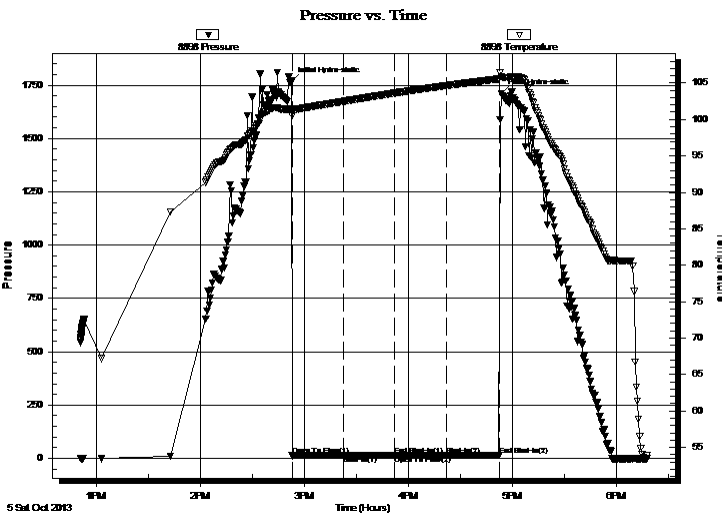
Capacity: 8000.00 psig

Last Calib.: 2013.10.05

Time On Btm: 2013.10.05 @ 14:52:37

Time Off Btm: 2013.10.05 @ 16:53:37

**TEST COMMENT:** IFP-Very weak surface blow died in 13 min  
ISP-No blow back  
FF-Dead no blow  
FSI-No blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1768.29	101.47	Initial Hydro-static
1	12.55	100.55	Open To Flow (1)
30	13.81	102.47	Shut-In(1)
60	14.57	103.61	End Shut-In(1)
60	14.04	103.62	Open To Flow (2)
90	14.19	104.64	Shut-In(2)
120	14.46	105.56	End Shut-In(2)
121	1708.71	105.85	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
1.00	100% Mud	0.01

## Gas Rates

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

\* Recovery from multiple tests



**TRILOBITE**  
TESTING, INC.

# DRILL STEM TEST REPORT

Messenger Petroleum  
525 S. Main St  
Kingmon, KS 67068  
ATTN: Jeff Burk

17-13S-18W Ellis, KS

**Karlie Trust #1**

Job Ticket: 54834

**DST#: 2**

Test Start: 2013.10.05 @ 12:50:37

## GENERAL INFORMATION:

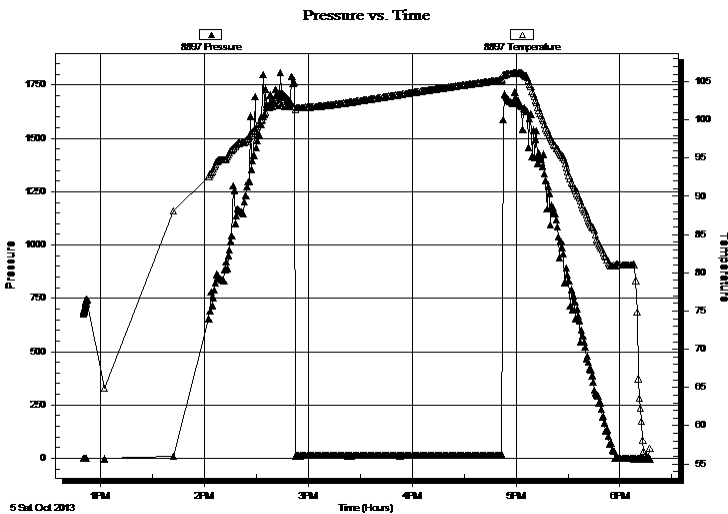
Formation: **LKC O**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 14:52:47  
 Time Test Ended: 18:18:07  
**Interval: 3438.00 ft (KB) To 3450.00 ft (KB) (TVD)**  
 Total Depth: 3450.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Good  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Tate Lang/ Tim Phill  
 Unit No: 49  
 Reference Elevations: 2091.00 ft (KB)  
 2082.00 ft (CF)  
 KB to GR/CF: 9.00 ft

**Serial #: 8897 Inside**

Press @ Run Depth: psig @ 3439.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2013.10.05 End Date: 2013.10.05 Last Calib.: 2013.10.05  
 Start Time: 12:50:10 End Time: 18:17:39 Time On Btm:  
 Time Off Btm:

**TEST COMMENT:** IFP-Very weak surface blow died in 13 min  
 ISP-No blow back  
 FF-Dead no blow  
 FSI-No blow back

## PRESSURE SUMMARY



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

## Recovery

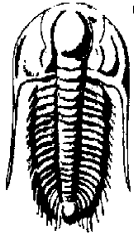
Length (ft)	Description	Volume (bbl)
1.00	100% Mud	0.01

\* Recovery from multiple tests

## Gas Rates

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





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Messenger Petroleum

**17-13S-18W Ellis,KS**

525 S. Main St  
Kingmon, KS 67068

**Karlie Trust #1**

Job Ticket: 54834

**DST#: 2**

ATTN: Jeff Burk

Test Start: 2013.10.05 @ 12:50:37

## Tool Information

Drill Pipe:	Length: 3420.00 ft	Diameter: 3.80 inches	Volume: 47.97 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose:	50000.00 lb
			<u>Total Volume: 47.97 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	7.00 ft			String Weight: Initial	46000.00 lb
Depth to Top Packer:	3438.00 ft			Final	46000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	12.00 ft				
Tool Length:	37.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			
Tool Comments:					

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3418.00	
Hydraulic tool	5.00			3423.00	
Jars	5.00			3428.00	
Packer	5.00			3433.00	25.00 Bottom Of Top Packer
Packer	5.00			3438.00	
Stubb	1.00			3439.00	
Recorder	0.00	8897	Inside	3439.00	
Recorder	0.00	8898	Outside	3439.00	
Perforations	8.00			3447.00	
Bullnose	3.00			3450.00	12.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>37.00</b>				



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Messenger Petroleum

**17-13S-18W Ellis,KS**

525 S. Main St  
Kingmon, KS 67068

**Karlie Trust #1**

Job Ticket: 54834

**DST#: 2**

ATTN: Jeff Burk

Test Start: 2013.10.05 @ 12:50:37

## 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: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.99 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 900.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1.00	100% Mud	0.014

Total Length: 1.00 ft      Total Volume: 0.014 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

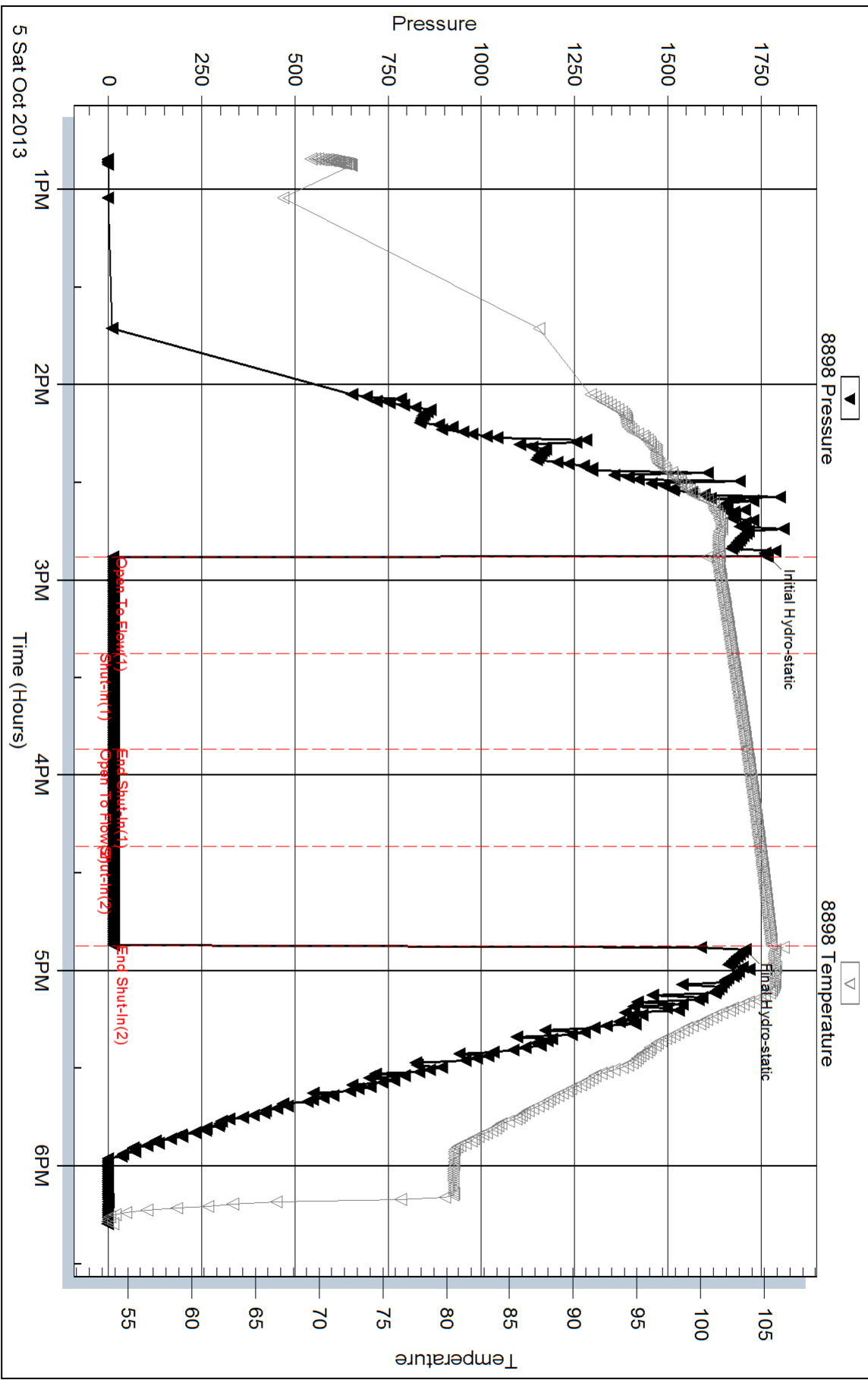
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

### Pressure vs. Time



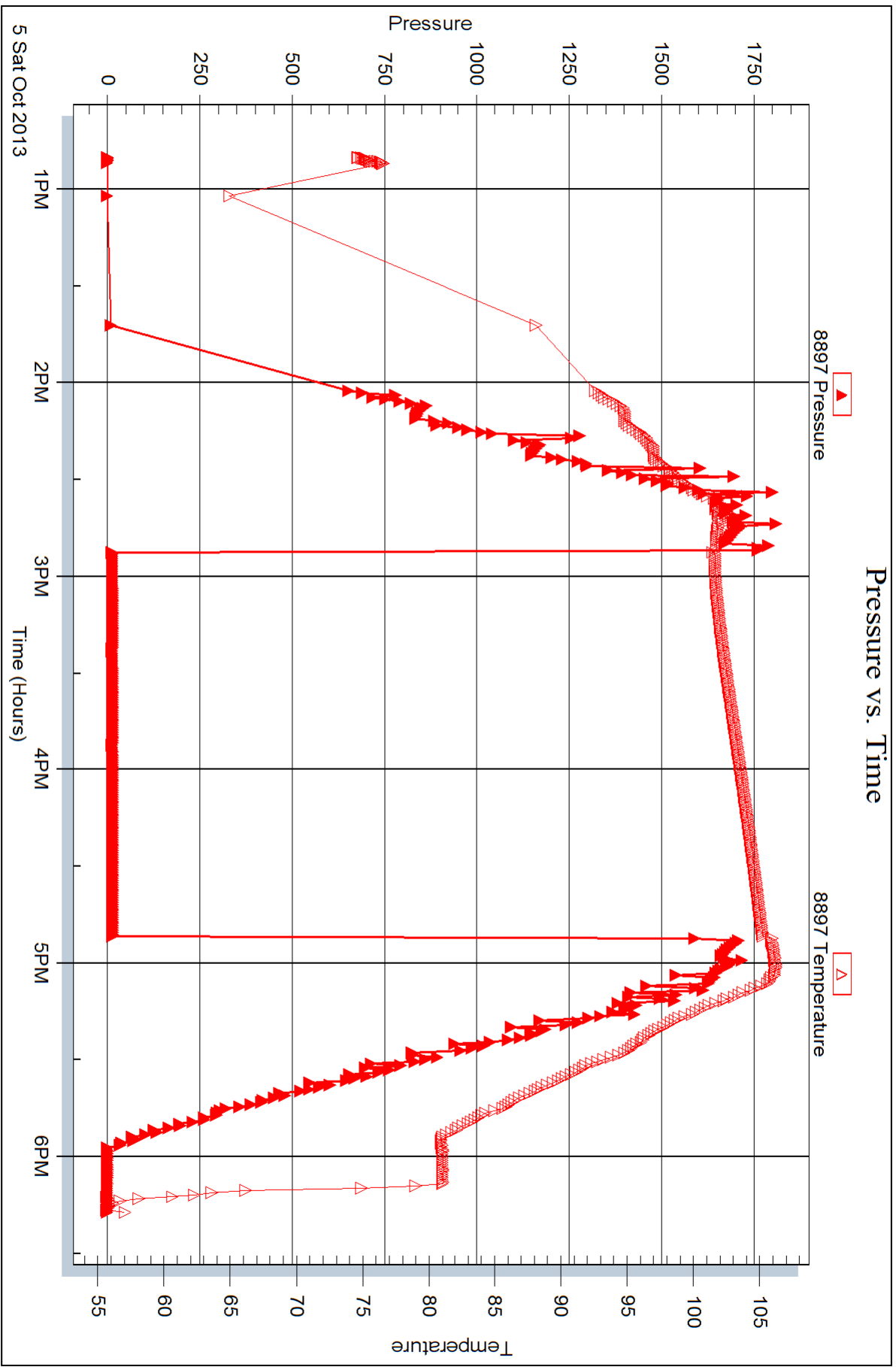
Serial #: 8897

Inside

Messenger Petroleum

Karlie Trust #1

DST Test Number: 2





## DRILL STEM TEST REPORT

Prepared For: **Messenger Petroleum**

525 S. Main St  
Kingmon, KS 67068

ATTN: Jeff Burk

### **Karlie Trust #1**

### **17-13S-18W Ellis,KS**

Start Date: 2013.10.06 @ 07:45:41

End Date: 2013.10.06 @ 13:19:20

Job Ticket #: 54835                      DST #: 3

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

Printed: 2013.10.10 @ 16:47:23



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Messenger Petroleum

**17-13S-18W Ellis, KS**

525 S. Main St  
Kingmon, KS 67068

**Karlie Trust #1**

Job Ticket: 54835

**DST#: 3**

ATTN: Jeff Burk

Test Start: 2013.10.06 @ 07:45:41

## GENERAL INFORMATION:

Formation: **LKC G,H**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:38:41

Time Test Ended: 13:19:20

Test Type: Conventional Bottom Hole (Reset)

Tester: Tate Lang/ Tim Phill

Unit No: 49

**Interval: 3463.00 ft (KB) To 3540.00 ft (KB) (TVD)**

Reference Elevations: 2091.00 ft (KB)

Total Depth: 3430.00 ft (KB) (TVD)

2082.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 9.00 ft

**Serial #: 8898 Outside**

Press @ RunDepth: 21.04 psig @ 3464.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.10.06

End Date:

2013.10.06

Last Calib.:

2013.10.06

Start Time: 07:45:42

End Time:

13:19:21

Time On Btm:

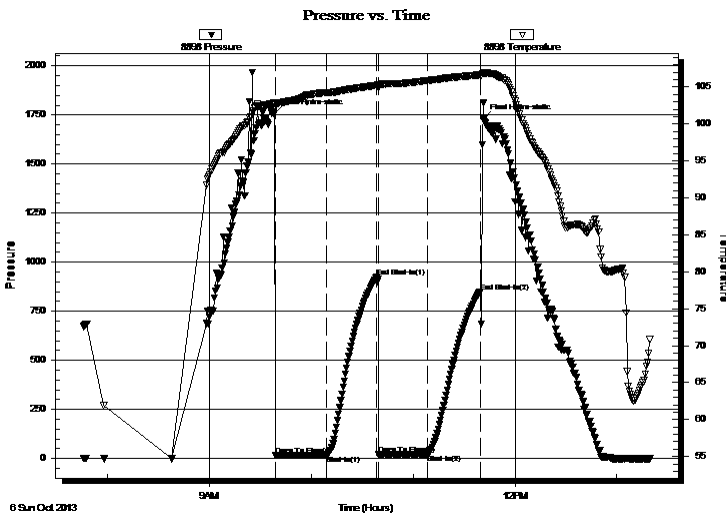
2013.10.06 @ 09:38:11

Time Off Btm:

2013.10.06 @ 11:41:31

**TEST COMMENT:** IFP-Weak surface blow built to 1/2 in.  
ISI-Dead no blow back  
FF-Dead no blow  
FSI-Dead no blow back

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1755.96	102.83	Initial Hydro-static
1	15.39	102.20	Open To Flow (1)
31	17.80	104.23	Shut-In(1)
61	922.50	105.24	End Shut-In(1)
62	19.47	104.93	Open To Flow (2)
90	21.04	105.88	Shut-In(2)
122	848.34	106.65	End Shut-In(2)
124	1730.66	106.91	Final Hydro-static

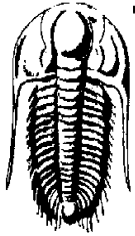
## Recovery

Length (ft)	Description	Volume (bbl)
10.00	100%M	0.14

\* Recovery from multiple tests

## Gas Rates

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



# TRILOBITE TESTING, INC.

## DRILL STEM TEST REPORT

Messenger Petroleum

17-13S-18W Ellis, KS

525 S. Main St  
Kingman, KS 67068

Karlie Trust #1

Job Ticket: 54835

DST#: 3

ATTN: Jeff Burk

Test Start: 2013.10.06 @ 07:45:41

### GENERAL INFORMATION:

Formation: LKC G,H

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:38:41

Time Test Ended: 13:19:20

Test Type: Conventional Bottom Hole (Reset)

Tester: Tate Lang/ Tim Phill

Unit No: 49

Interval: 3463.00 ft (KB) To 3540.00 ft (KB) (TVD)

Reference Elevations: 2091.00 ft (KB)

Total Depth: 3430.00 ft (KB) (TVD)

2082.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 9.00 ft

Serial #: 8897

Inside

Press @ Run Depth: psig @ 3464.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.10.06

End Date:

2013.10.06

Last Calib.:

2013.10.06

Start Time: 07:45:43

End Time:

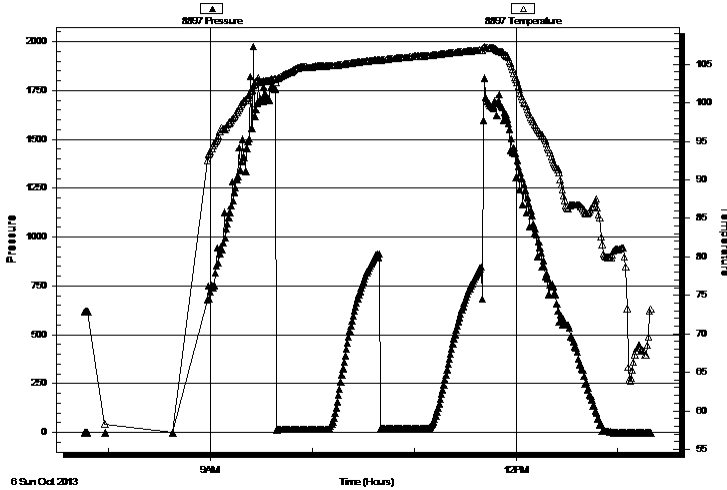
13:19:22

Time On Btm:

Time Off Btm:

TEST COMMENT: IFP-Weak surface blow built to 1/2 in.  
ISI-Dead no blow back  
FF-Dead no blow  
FSI-Dead no blow back

Pressure vs. Time



### PRESSURE SUMMARY

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

### Recovery

Length (ft)	Description	Volume (bbl)
10.00	100%M	0.14

### Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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\* Recovery from multiple tests



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Messenger Petroleum

**17-13S-18W Ellis,KS**

525 S. Main St  
Kingmon, KS 67068

**Karlie Trust #1**

Job Ticket: 54835

**DST#: 3**

ATTN: Jeff Burk

Test Start: 2013.10.06 @ 07:45:41

## Tool Information

Drill Pipe:	Length: 3452.00 ft	Diameter: 3.80 inches	Volume: 48.42 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 50000.00 lb
			<u>Total Volume: 48.42 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	14.00 ft			String Weight: Initial 47000.00 lb
Depth to Top Packer:	3463.00 ft			Final 47000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	77.00 ft			
Tool Length:	102.00 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			3443.00	
Hydraulic tool	5.00			3448.00	
Jars	5.00			3453.00	
Packer	5.00			3458.00	25.00 Bottom Of Top Packer
Packer	5.00			3463.00	
Stubb	1.00			3464.00	
Recorder	0.00	8897	Inside	3464.00	
Recorder	0.00	8898	Outside	3464.00	
Perforations	8.00			3472.00	
Change Over Sub	1.00			3473.00	
Drill Pipe	63.00			3536.00	
Change Over Sub	1.00			3537.00	
Bullnose	3.00			3540.00	77.00 Bottom Packers & Anchor

**Total Tool Length: 102.00**





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Messenger Petroleum

**17-13S-18W Ellis,KS**

525 S. Main St  
Kingmon, KS 67068

**Karlie Trust #1**

Job Ticket: 54835

**DST#: 3**

ATTN: Jeff Burk

Test Start: 2013.10.06 @ 07:45:41

## 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: 63.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.99 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 900.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	100%M	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:

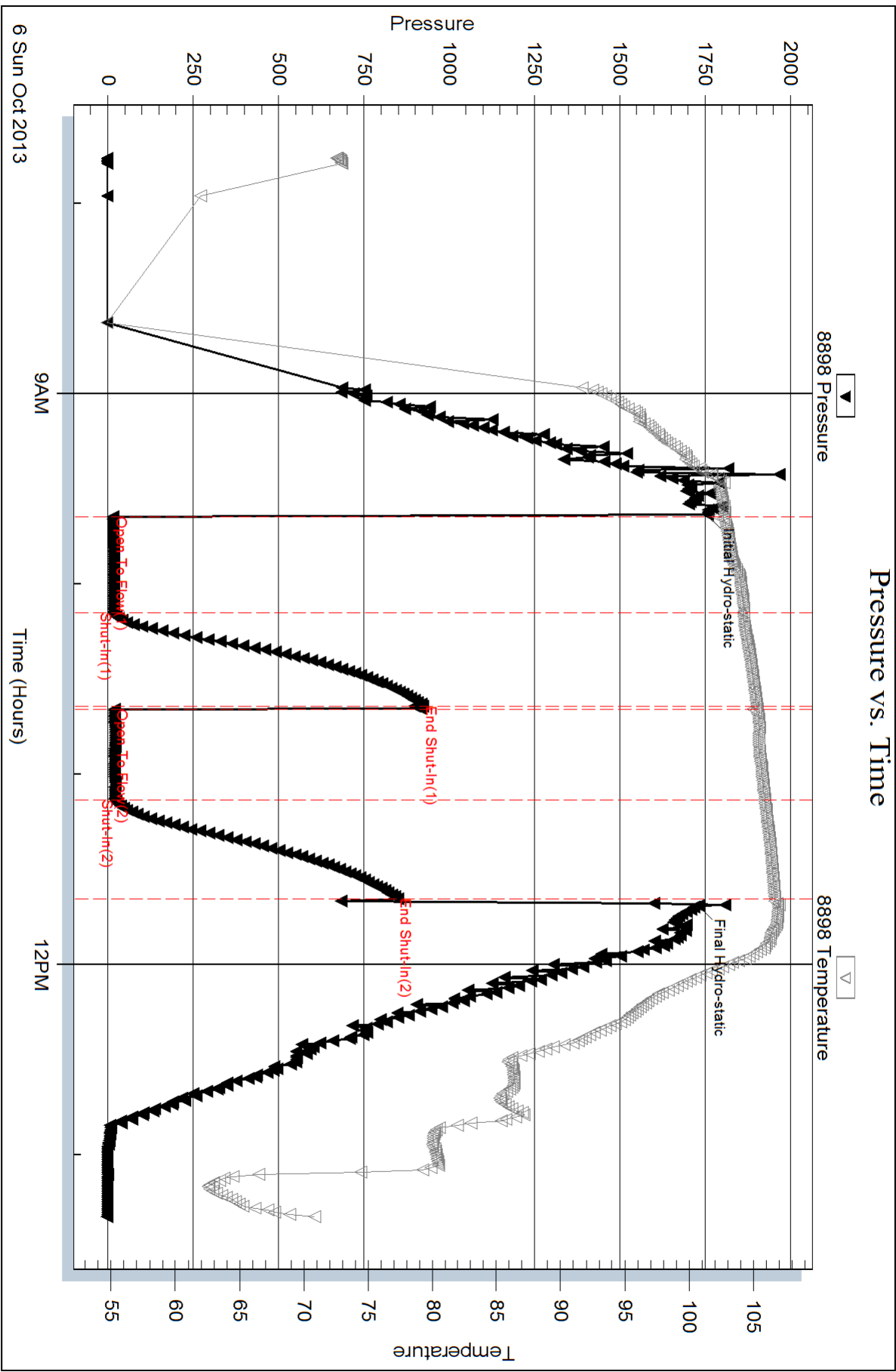
Recovery Comments:

Serial #: 8898

Outside Messenger Petroleum

Karlie Trust #1

DST Test Number: 3



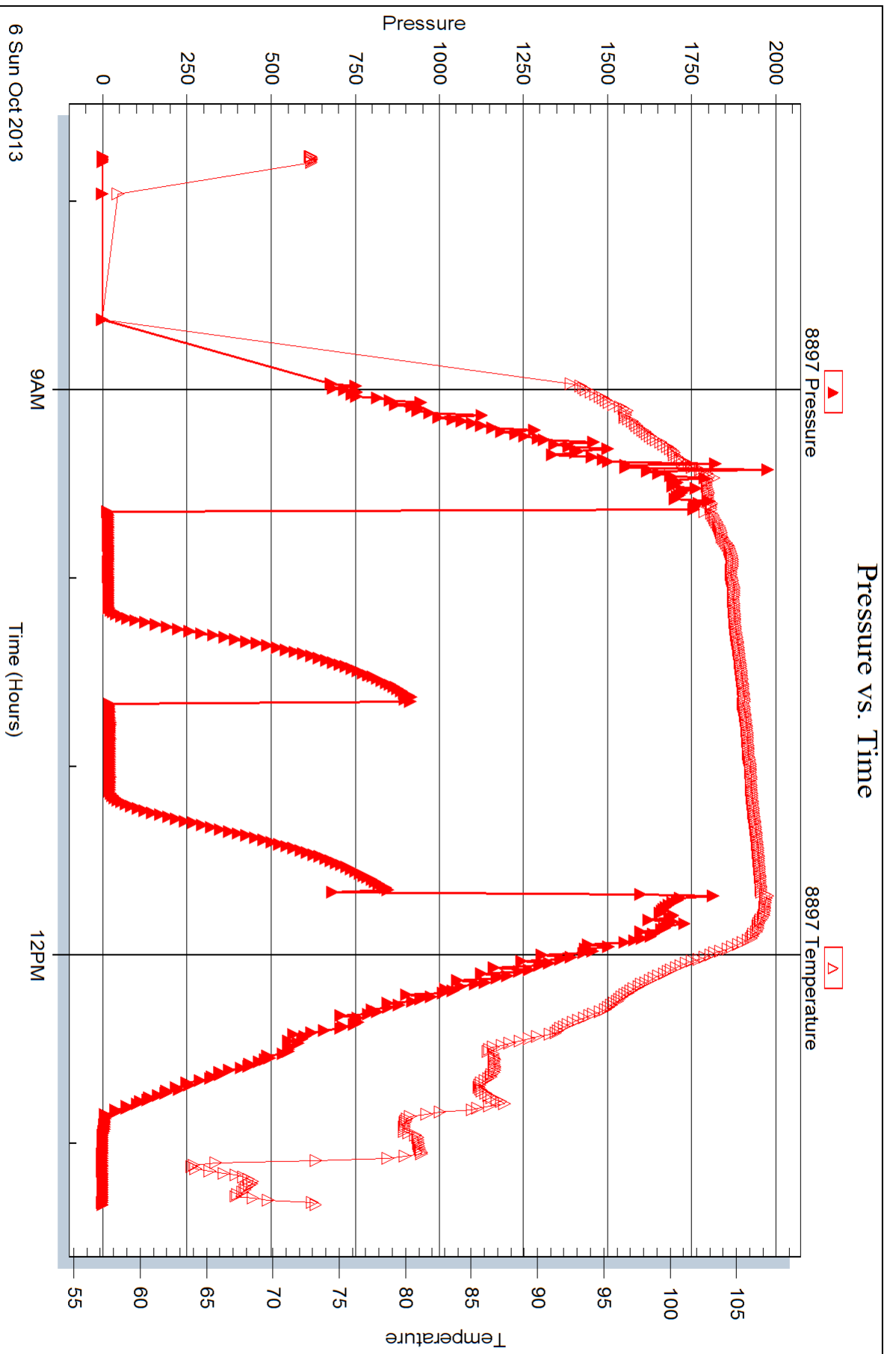
Serial #: 8897

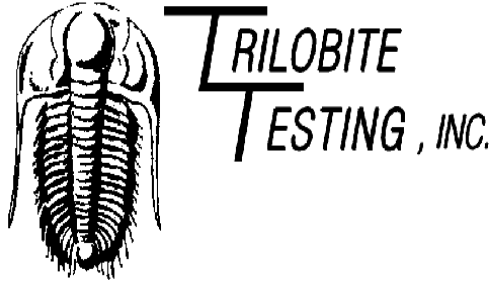
Inside

Messenger Petroleum

Karlie Trust #1

DST Test Number: 3





## DRILL STEM TEST REPORT

Prepared For: **Messenger Petroleum**

525 S. Main St  
Kingmon, KS 67068

ATTN: Jeff Burk

### **Karlie Trust #1**

### **17-13S-18W Ellis,KS**

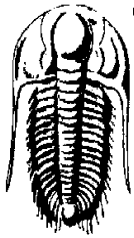
Start Date: 2013.10.07 @ 00:28:28

End Date: 2013.10.07 @ 05:18:28

Job Ticket #: 54836                      DST #: 4

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

Printed: 2013.10.10 @ 16:46:49



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Messenger Petroleum

17-13S-18W Ellis, KS

525 S. Main St  
Kingmon, KS 67068

**Karlie Trust #1**

Job Ticket: 54836

**DST#: 4**

ATTN: Jeff Burk

Test Start: 2013.10.07 @ 00:28:28

## GENERAL INFORMATION:

Formation: **LKC I,J,K**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:00:18

Time Test Ended: 05:18:28

Test Type: Conventional Bottom Hole (Reset)

Tester: Tate Lang

Unit No: 49

**Interval: 3550.00 ft (KB) To 3603.00 ft (KB) (TVD)**

Reference Elevations: 2091.00 ft (KB)

Total Depth: 3603.00 ft (KB) (TVD)

2082.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 9.00 ft

**Serial #: 8898 Outside**

Press @ Run Depth: 37.32 psig @ 3552.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.10.07

End Date:

2013.10.07

Last Calib.:

2013.10.07

Start Time: 00:28:29

End Time:

05:18:28

Time On Btm:

2013.10.07 @ 02:00:08

Time Off Btm:

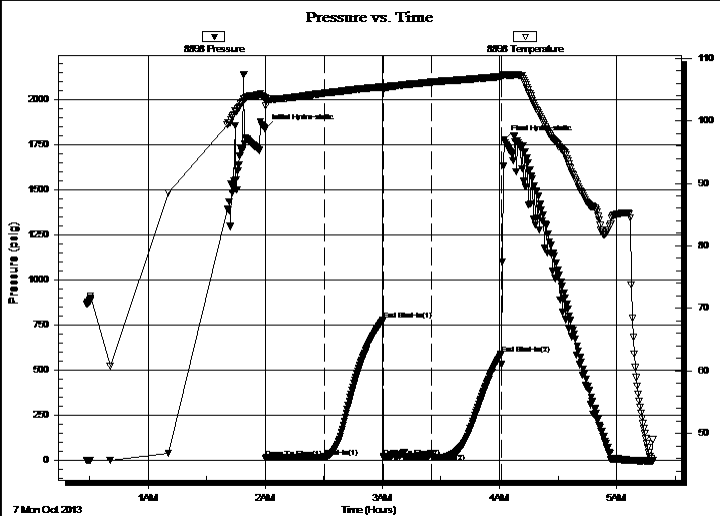
2013.10.07 @ 04:02:28

**TEST COMMENT:** Weak surface blow built to 1/4 in.

Dead no blow back

Dead no blow

Dead no blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1837.86	103.70	Initial Hydro-static
1	13.52	102.41	Open To Flow (1)
30	17.02	104.37	Shut-In(1)
61	778.84	105.39	End Shut-In(1)
61	17.88	105.12	Open To Flow (2)
85	37.32	106.16	Shut-In(2)
121	588.14	107.04	End Shut-In(2)
123	1777.51	107.32	Final Hydro-static

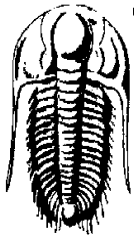
## Recovery

Length (ft)	Description	Volume (bbl)
5.00	100%M	0.07

## Gas Rates

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

\* Recovery from multiple tests



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Messenger Petroleum

**17-13S-18W Ellis, KS**

525 S. Main St  
Kingmon, KS 67068

**Karlie Trust #1**

Job Ticket: 54836

**DST#: 4**

ATTN: Jeff Burk

Test Start: 2013.10.07 @ 00:28:28

### GENERAL INFORMATION:

Formation: **LKC I,J,K**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:00:18

Time Test Ended: 05:18:28

Test Type: Conventional Bottom Hole (Reset)

Tester: Tate Lang

Unit No: 49

**Interval: 3550.00 ft (KB) To 3603.00 ft (KB) (TVD)**

Reference Elevations: 2091.00 ft (KB)

Total Depth: 3603.00 ft (KB) (TVD)

2082.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 9.00 ft

**Serial #: 8897 Inside**

Press @ Run Depth: psig @ 3552.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.10.07 End Date: 2013.10.07

Last Calib.: 2013.10.07

Start Time: 00:28:40 End Time: 05:18:39

Time On Btm:

Time Off Btm:

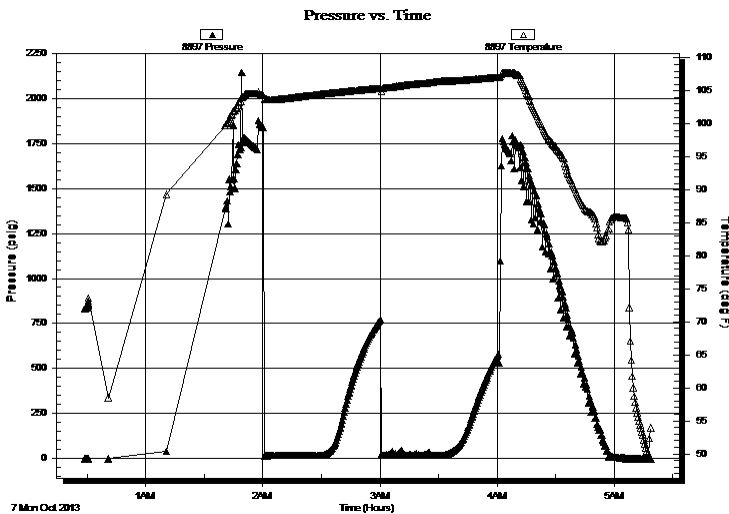
**TEST COMMENT:** Weak surface blow built to 1/4 in.

Dead no blow back

Dead no blow

Dead no blow back

### PRESSURE SUMMARY



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

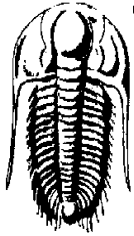
### Recovery

Length (ft)	Description	Volume (bbl)
5.00	100%M	0.07

### Gas Rates

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

\* Recovery from multiple tests



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Messenger Petroleum

**17-13S-18W Ellis,KS**

525 S. Main St  
Kingmon, KS 67068

**Karlie Trust #1**

Job Ticket: 54836

**DST#: 4**

ATTN: Jeff Burk

Test Start: 2013.10.07 @ 00:28:28

## Tool Information

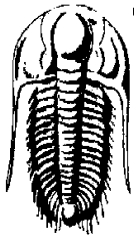
Drill Pipe:	Length: 3545.00 ft	Diameter: 3.80 inches	Volume: 49.73 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 55000.00 lb
			Total Volume: 49.73 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	3550.00 ft			Final 48000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	53.00 ft			
Tool Length:	78.00 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			3530.00	
Hydraulic tool	5.00			3535.00	
Jars	5.00			3540.00	
Packer	5.00			3545.00	25.00 Bottom Of Top Packer
Packer	5.00			3550.00	
Stubb	1.00			3551.00	
Perforations	1.00			3552.00	
Recorder	0.00	8897	Inside	3552.00	
Recorder	0.00	8898	Outside	3552.00	
Perforations	15.00			3567.00	
Change Over Sub	1.00			3568.00	
Drill Pipe	31.00			3599.00	
Change Over Sub	1.00			3600.00	
Bullnose	3.00			3603.00	53.00 Bottom Packers & Anchor

**Total Tool Length: 78.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Messenger Petroleum

**17-13S-18W Ellis,KS**

525 S. Main St  
Kingmon, KS 67068

**Karlie Trust #1**

Job Ticket: 54836

**DST#: 4**

ATTN: Jeff Burk

Test Start: 2013.10.07 @ 00:28:28

## 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: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.98 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 800.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	100%M	0.070

Total Length: 5.00 ft      Total Volume: 0.070 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

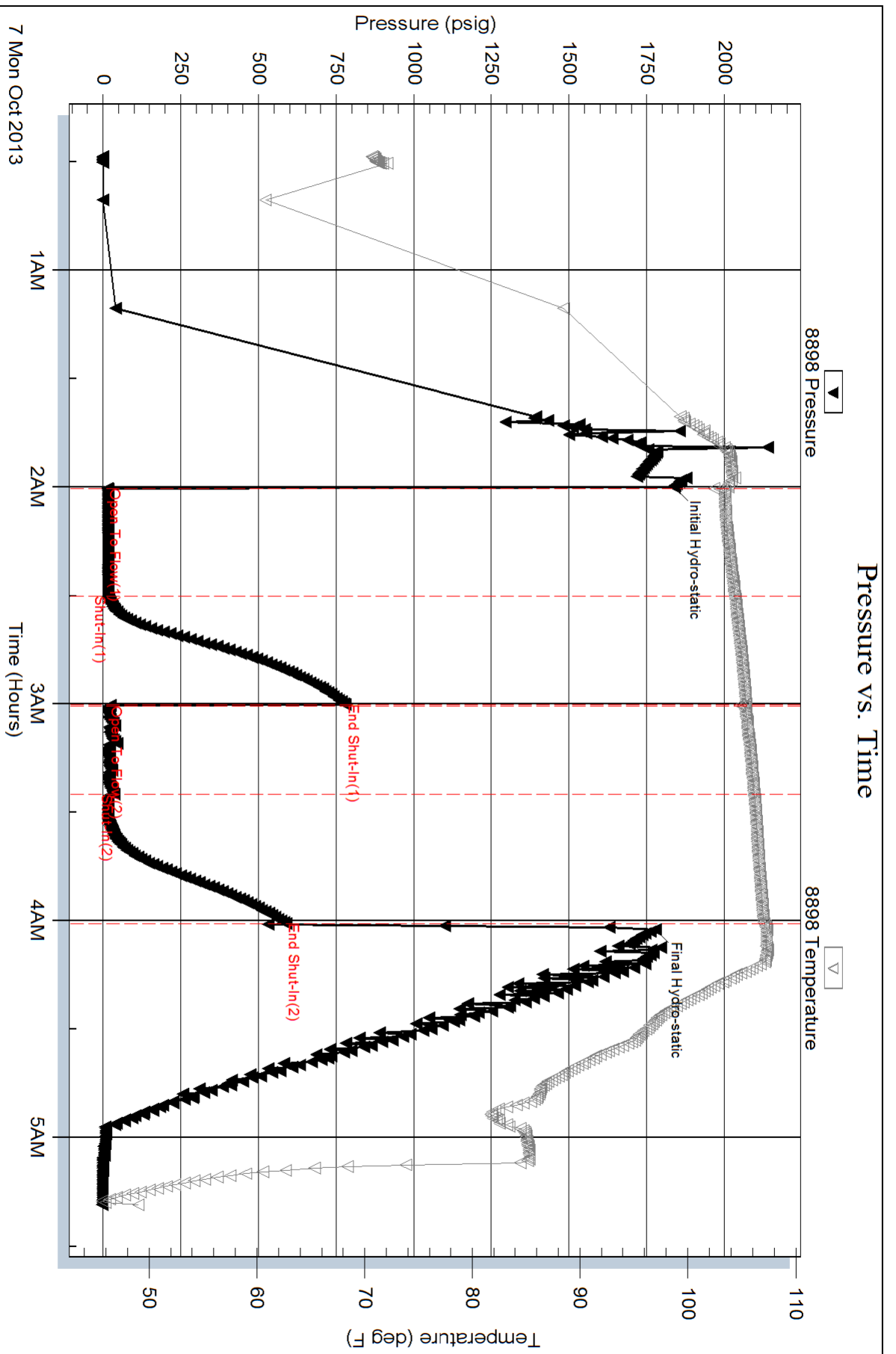
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





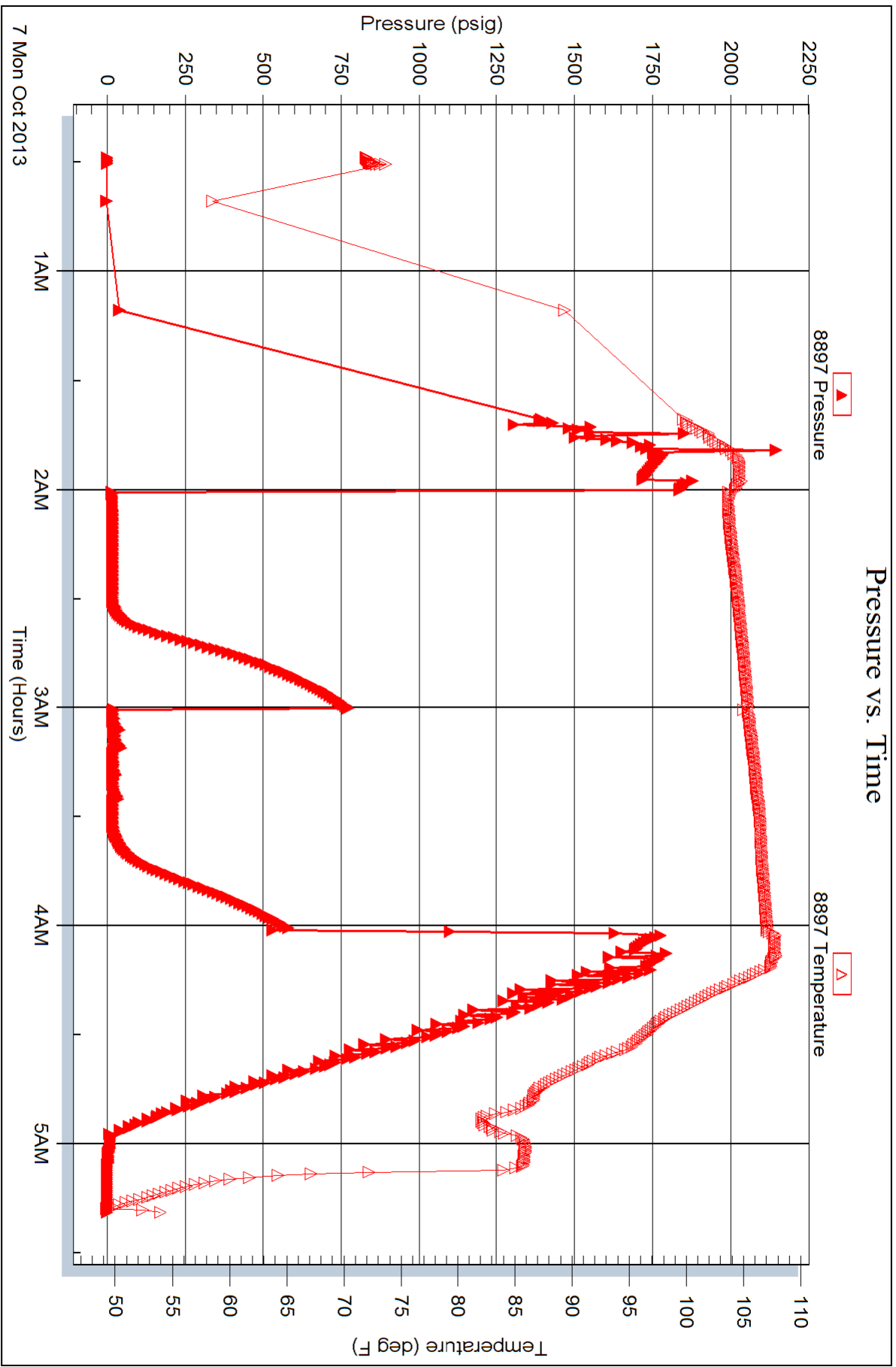
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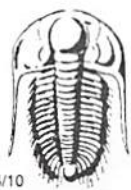
Inside

Messenger Petroleum

Karlie Trust #1

DST Test Number: 4





# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. **54833**

Well Name & No. Kaelie Teust #1 Test No. 1 Date 10/04/2013  
 Company Messenger Petroleum Elevation 2091 KB 2082 GL  
 Address 525 S. Main St Kingman, KS 67608  
 Co. Rep / Geo. Jeff Buale / Eli Felts Rig Southwind #8  
 Location: Sec. 17 Twp. 13S Rge. 16W Co. ELLIS State KS

Interval Tested 3400 - 3430 Zone Tested LANSING  
 Anchor Length ~~3450~~ 30' Drill Pipe Run 3389 Mud Wt. 9.0  
 Top Packer Depth 3396 Drill Collars Run 0 Vis 50  
 Bottom Packer Depth 3400 Wt. Pipe Run 0 WL 6.0  
 Total Depth 3430 Chlorides 800 ppm System LCM 2#

Blow Description Weak surface blow built to 1/2 in  
Dead no blow back  
Dead no blow Flushed tool surged then died  
Dead no blow back

Rec	Feet of	%gas	%oil	%water	%mud
<u>10</u>	<u>Mud</u>			<u>100</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 10 BHT 108 Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic 1731  Test 1150 T-On Location AND 2140  
 (B) First Initial Flow 13  Jars 250 T-Started 122 0022  
 (C) First Final Flow 17  Safety Joint \_\_\_\_\_ T-Open 0224  
 (D) Initial Shut-In 1091  Circ Sub \_\_\_\_\_ T-Pulled 0456  
 (E) Second Initial Flow 17  Hourly Standby \_\_\_\_\_ T-Out 620  
 (F) Second Final Flow 19  Mileage 10 miles R/T 15.50 Comments \_\_\_\_\_  
 (G) Final Shut-In 1044  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1710  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Initial Open 36  Extra Recorder \_\_\_\_\_ Sub Total 0  
 Initial Shut-In 45  Day Standby \_\_\_\_\_ Total 1415.50  
 Final Flow 30  Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Final Shut-In 45 Sub Total 1415.50

Approved By \_\_\_\_\_

Our Representative John Phillips

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.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 54834

Well Name & No. Karlie Trust #1 Test No. 2 Date 10/05/2013  
 Company Messenger Petroleum Elevation 2091 KB ~~280~~ 2082 GL  
 Address 525 S. Main St. Kingman, KS 67608  
 Co. Rep / Geo. Jeff Burk Rig Southwinds Rig #8  
 Location: Sec. 17 Twp. 13S Rge. 18W Co. Ellis State KS

Interval Tested 3438-3450 Zone Tested LANSING 0  
 Anchor Length 12 Drill Pipe Run 3420 Mud Wt. 9.1  
 Top Packer Depth 3434 Drill Collars Run 0 Vis 55  
 Bottom Packer Depth 3438 Wt. Pipe Run 0 WL 6.0  
 Total Depth 3450 Chlorides 900 ppm System LCM 2<sup>th</sup>

Blow Description IFP - very weak surface blow died in 13 min  
ISP - No blow back  
FF - DEAD NO blow  
FSI - No blow back

Rec	Feet of	%gas	%oil	%water	%mud
<u>1</u>	<u>Mud</u>			<u>100</u>	

Rec Total 1 BHT 105 Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic 1768  Test 1150 T-On Location 12:15  
 (B) First Initial Flow 12  Jars \_\_\_\_\_ T-Started 12:50  
 (C) First Final Flow 13  Safety Joint \_\_\_\_\_ T-Open 1452  
 (D) Initial Shut-In 15  Circ Sub \_\_\_\_\_ T-Pulled 1652  
 (E) Second Initial Flow 14  Hourly Standby \_\_\_\_\_ T-Out 1817  
 (F) Second Final Flow 14  Mileage 10 R/T 15.50 Comments \_\_\_\_\_  
 (G) Final Shut-In 14  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1708  Straddle \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_  
 Day Standby \_\_\_\_\_  
 Accessibility \_\_\_\_\_

Initial Open 30  Ruined Shale Packer \_\_\_\_\_  
 Initial Shut-In 30  Ruined Packer \_\_\_\_\_  
 Final Flow 30  Extra Copies \_\_\_\_\_  
 Final Shut-In 30 Sub Total 0  
 Total 1165.50  
 MP/DST Disc't \_\_\_\_\_

Sub Total 1165.50

Approved By \_\_\_\_\_ Our Representative [Signature]

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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 54835

Well Name & No. KARLIE Trust #1 Test No. 3 Date 10/06/2013  
 Company Messenger Petroleum Elevation 2091 KB 2082 GL  
 Address 525 S. MAIN ST KINGMAN, KS 67608  
 Co. Rep / Geo. Jeff Burk Rig Southwind #8  
 Location: Sec. 17 Twp. 13 S Rge. 18 W Co. Ellis State KS

Interval Tested 3463 - 3540 Zone Tested LANSING G, H  
 Anchor Length 77 Drill Pipe Run 3452 Mud Wt. 9.2  
 Top Packer Depth 3459 Drill Collars Run 0 Vis 63  
 Bottom Packer Depth 3463 Wt. Pipe Run 0 WL 6.0  
 Total Depth 3540 Chlorides 900 ppm System LCM 2#

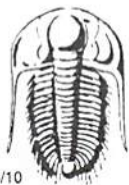
Blow Description Weak surface blow built to 1/2 in  
Dead no blow back  
Dead no blow  
Dead no blow back

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

Rec Total 10 BHT 107 Gravity — API RW — @ —° F Chlorides — ppm  
 (A) Initial Hydrostatic 1756  Test 1150 T-On Location 0647  
 (B) First Initial Flow 15  Jars — T-Started 0745  
 (C) First Final Flow 18  Safety Joint — T-Open 0938  
 (D) Initial Shut-In 923  Circ Sub — T-Pulled 1138  
 (E) Second Initial Flow 19  Hourly Standby — T-Out 1318  
 (F) Second Final Flow 21  Mileage 10 R/T 15.50 Comments —  
 (G) Final Shut-In 848  Sampler —  
 (H) Final Hydrostatic 1730  Straddle —  Ruined Shale Packer —  
 Shale Packer —  Ruined Packer —

Initial Open 30  Extra Packer —  Extra Copies —  
 Initial Shut-In 30  Extra Recorder — Sub Total 0  
 Final Flow 30  Day Standby — Total 1165.50  
 Final Shut-In 30  Accessibility — MP/DST Disc't —  
 Sub Total 1165.50

Approved By \_\_\_\_\_ Our Representative Jim Phillips  
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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. **54836**

4/10

Well Name & No. Marlie Trust #1 Test No. 4 Date 10-7-13  
 Company Messenger Petroleum Elevation 2091 KB 2082 GL  
 Address 525 S. Main St Kingman, KS 67608  
 Co. Rep / Geo. Jeff Burk Rig Southwind #8  
 Location: Sec. 17 Twp. 13 S Rge. 18W Co. Ellis State KS

Interval Tested 3550 3603 Zone Tested LML I, J, K  
 Anchor Length 53 Drill Pipe Run 3545 Mud Wt. 9.2  
 Top Packer Depth 3546 Drill Collars Run 0 Vis 6.3  
 Bottom Packer Depth 3550 Wt. Pipe Run 0 WL 6.0  
 Total Depth 3603 Chlorides 900 ppm System LCM 2#

Blow Description Weak surface blow built to 1/4 in  
Dead no blow back  
Dead no blow  
Dead no blow back

Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec <u>5</u>	Feet of <u>mud</u>	%gas	%oil	%water <u>100</u>	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 5 BHT 107 Gravity ✓ API RW ✓ @ ✓ ° F Chlorides ✓ ppm  
 (A) Initial Hydrostatic 1838  Test 1150 T-On Location 23:45 (10-4)  
 (B) First Initial Flow 14  Jars T-Started 00:28  
 (C) First Final Flow 17  Safety Joint T-Open 02:00  
 (D) Initial Shut-In 779  Circ Sub T-Pulled 04:00  
 (E) Second Initial Flow 18  Hourly Standby T-Out 05:18  
 (F) Second Final Flow 37  Mileage 10 RH 31 Comments loaded tools 10/8 2:25  
 (G) Final Shut-In 588  Sampler  Ruined Shale Packer  
 (H) Final Hydrostatic 1778  Shale Packer  Ruined Packer

Initial Open 30  Extra Packer  Extra Copies  
 Initial Shut-In 30  Extra Recorder Sub Total 0  
 Final Flow 30  Day Standby Total 1181  
 Final Shut-In 30  Accessibility MP/DST Disc't  
 Sub Total 1181

Approved By \_\_\_\_\_ Our Representative [Signature]

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