



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1076833  
OIL & GAS CONSERVATION DIVISION

Form ACO-1

August 2013

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
- Plug Back       Conv. to GSW       Conv. to Producer
- Commingled      Permit #: \_\_\_\_\_
- Dual Completion      Permit #: \_\_\_\_\_
- SWD      Permit #: \_\_\_\_\_
- ENHR      Permit #: \_\_\_\_\_
- GSW      Permit #: \_\_\_\_\_

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

GPS Location: Lat: \_\_\_\_\_, Long: \_\_\_\_\_  
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum:  NAD27       NAD83       WGS84

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

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

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

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

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

Total Vertical 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

- Confidentiality Requested  
Date: \_\_\_\_\_
- Confidential Release Date: \_\_\_\_\_
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

1076833

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

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

**INSTRUCTIONS:** Show important tops 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.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

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  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
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

Did you perform a hydraulic fracturing treatment on this well?  Yes  No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?  Yes  No *(If No, skip question 3)*

Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry?  Yes  No *(If No, fill out Page Three of the ACO-1)*

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: <input type="checkbox"/> Yes <input type="checkbox"/> No
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Date of First, Resumed Production, SWD or ENHR.	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____
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Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

<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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Conservation Division  
Finney State Office Building  
130 S. Market, Rm. 2078  
Wichita, KS 67202-3802



Phone: 316-337-6200  
Fax: 316-337-6211  
<http://kcc.ks.gov/>

Mark Sievers, Chairman  
Ward Loyd, Commissioner  
Thomas E. Wright, Commissioner

Sam Brownback, Governor

March 20, 2012

Charles Ramsay  
H & C Oil Operating Inc.  
PO BOX 86  
PLAINVILLE, KS 67663-0086

Re: ACO1  
API 15-065-23804-00-00  
Darlene Day 28-1  
NW/4 Sec.28-06S-24W  
Graham County, Kansas

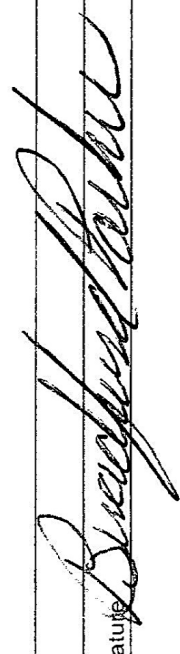
Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully,  
Charles Ramsay

Date	3-8-12	Sec.	28	Twp.	6	Range	24	County	Graham	State	KS	On Location		Finish	1:30 PM
Well Name	Darlene Day		Well No.	28-1		Location	Hill City, KS - N2 to V Rd, W to BORL								
Contractor	American Eagle #3		Owner 194 N, E15												
Type Job	Plug		To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.												
Hole Size	7 7/8"		T.D.	3987'											
Csg.			Depth												
Tbg. Size	4 1/2" D.P.		Depth	2230'											
Tool			Depth												
Cement Left in Csg.			Shoe Joint												
Meas Line			Displace	H20/MMW											
EQUIPMENT															
Pumptrk	15	No.	Cementer	Cisco											
Bulktrk	13	No.	Driver	Levy											
Bulktrk	p.u.	No.	Driver	Rick											
JOB SERVICES & REMARKS															
Remarks:	The above was done to satisfaction and supervision of owner agent or contractor.														
Rat Hole	325X														
Mouse Hole	—														
Centralizers															
Baskets															
DV or Port Collar	2280' - 255X														
	1323' - 100 5X														
	330' - 40 5X														
	40' - 10 5X w/ plug														
	Rathole - 30 5X														
	Cement did Circulate.														
	1 wooden plug														
Pumptrk Charge															
Mileage	44 plug														
Tax															
Discount															
Total Charge															

X Signature 

# QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025  
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 635

Sec. 28	Twsp. 6	Range 24	County Cowley	State KS	On Location	Finish 4:00 AM.
Date 2-29-12	Well No. 28-1	Location Hilkey AGR W to 180 Ave / 340 E into				
Contractor American Eagle #3						
Type Job Surface						
Casing Size 12 1/4						
Casing 8 7/8						
Casing Size						
Tool						
Cement Left in Csg. 15'						
Cement Amount Ordered 170 cum 3% acc 2/9/12						
<b>EQUIPMENT</b>						
Pumptrk 5	No. Cemented 5	Helper Craig	Common 170			
Mulktrk	No. Driver Brett	Driver	Poz. Mix			
Mulktrk 14	No. Driver Brian	Driver	Gel. 3			
<b>JOB SERVICES &amp; REMARKS</b>						
Remarks:						
Float Hole						
Flowseal						
Centralizers						
Baskets						
W or Port Collar						
8 7/8 on bottom. Est. Circulation.						
Mix 170SC + Displace.						
Cement - Circulation!						
<b>FLOAT EQUIPMENT</b>						
Guide Shoe						
Centralizer						
Baskets						
AFU Inserts						
Float Shoe						
Latch Down						
Pumptrk Charge Surface						
Mileage 44						
Tax						
Discount						
Total Charge						

Signature: *Shackleton*



## DRILL STEM TEST REPORT

Prepared For: **H & C Oil Operation**

PO Box 86  
Plainville KS 67663

ATTN: Marc Downing

**Darlene Day #28-1**

**28-6s-24w Graham,KS**

Start Date: 2012.03.05 @ 04:30:00

End Date: 2012.03.05 @ 11:45:00

Job Ticket #: 042987                      DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.03.08 @ 16:51:29

H & C Oil Operation  
28-6s-24w Graham,KS  
Darlene Day #28-1  
DST # 1  
LKC "C"  
2012.03.05



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

H & C Oil Operation

**28-6s-24w Graham,KS**

PO Box 86  
Plainville KS 67663

**Darlene Day #28-1**

Job Ticket: 042987

**DST#: 1**

ATTN: Marc Downing

Test Start: 2012.03.05 @ 04:30:00

## GENERAL INFORMATION:

Formation: **LKC "C"**

Deviated: No Whipstock: 2474.00 ft (KB)

Time Tool Opened: 07:03:00

Time Test Ended: 11:45:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Jim Svaty

Unit No: 57

**Interval: 3775.00 ft (KB) To 3798.00 ft (KB) (TVD)**

Reference Elevations: 2474.00 ft (KB)

Total Depth: 3798.00 ft (KB) (TVD)

2469.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

**Serial #: 6719**

**Inside**

Press @ Run Depth: 77.76 psig @ 3776.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.03.05

End Date:

2012.03.05

Last Calib.:

2012.03.05

Start Time: 04:30:05

End Time:

11:44:59

Time On Btm:

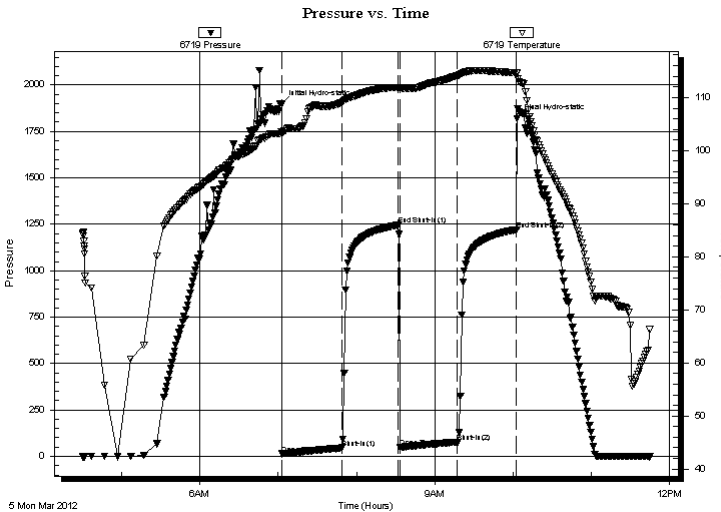
2012.03.05 @ 07:02:30

Time Off Btm:

2012.03.05 @ 10:03:00

**TEST COMMENT:** 45-IFP-Surface Blow Building to 8.5"  
45-ISIP-No Blow  
45-FFP-Surface Blow Building to 6.5"  
45-FSIP-No Blow

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1896.97	103.49	Initial Hydro-static
1	13.21	103.20	Open To Flow (1)
46	45.89	109.05	Shut-In(1)
90	1246.03	111.93	End Shut-In(1)
91	48.62	111.61	Open To Flow (2)
135	77.76	114.11	Shut-In(2)
180	1221.60	114.63	End Shut-In(2)
181	1819.17	114.60	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
128.00	MCW 45% m 55% w	1.80

## Gas Rates

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







**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

H & C Oil Operation

**28-6s-24w Graham,KS**

PO Box 86  
Plainville KS 67663

**Darlene Day #28-1**

Job Ticket: 042987

**DST#: 1**

ATTN: Marc Downing

Test Start: 2012.03.05 @ 04:30:00

## Tool Information

Drill Pipe:	Length: 3775.00 ft	Diameter: 3.80 inches	Volume: 52.95 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: 62000.00 lb
			<u>Total Volume: 52.95 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	3775.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	23.00 ft			
Tool Length:	43.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Shut In Tool	5.00			3760.00	
Hydraulic tool	5.00			3765.00	
Packer	5.00			3770.00	20.00 Bottom Of Top Packer
Packer	5.00			3775.00	
Stubb	1.00			3776.00	
Recorder	0.00	6719	Inside	3776.00	
Recorder	0.00	8320	Outside	3776.00	
Perforations	19.00			3795.00	
Bullnose	3.00			3798.00	23.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>43.00</b>				



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

H & C Oil Operation

**28-6s-24w Graham,KS**

PO Box 86  
Plainville KS 67663

**Darlene Day #28-1**

Job Ticket: 042987

**DST#: 1**

ATTN: Marc Downing

Test Start: 2012.03.05 @ 04:30:00

## 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: 59.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.94 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1000.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
128.00	MCW 45% <i>m</i> 55% <i>w</i>	1.796

Total Length: 128.00 ft      Total Volume: 1.796 bbl

Num Fluid Samples: 0

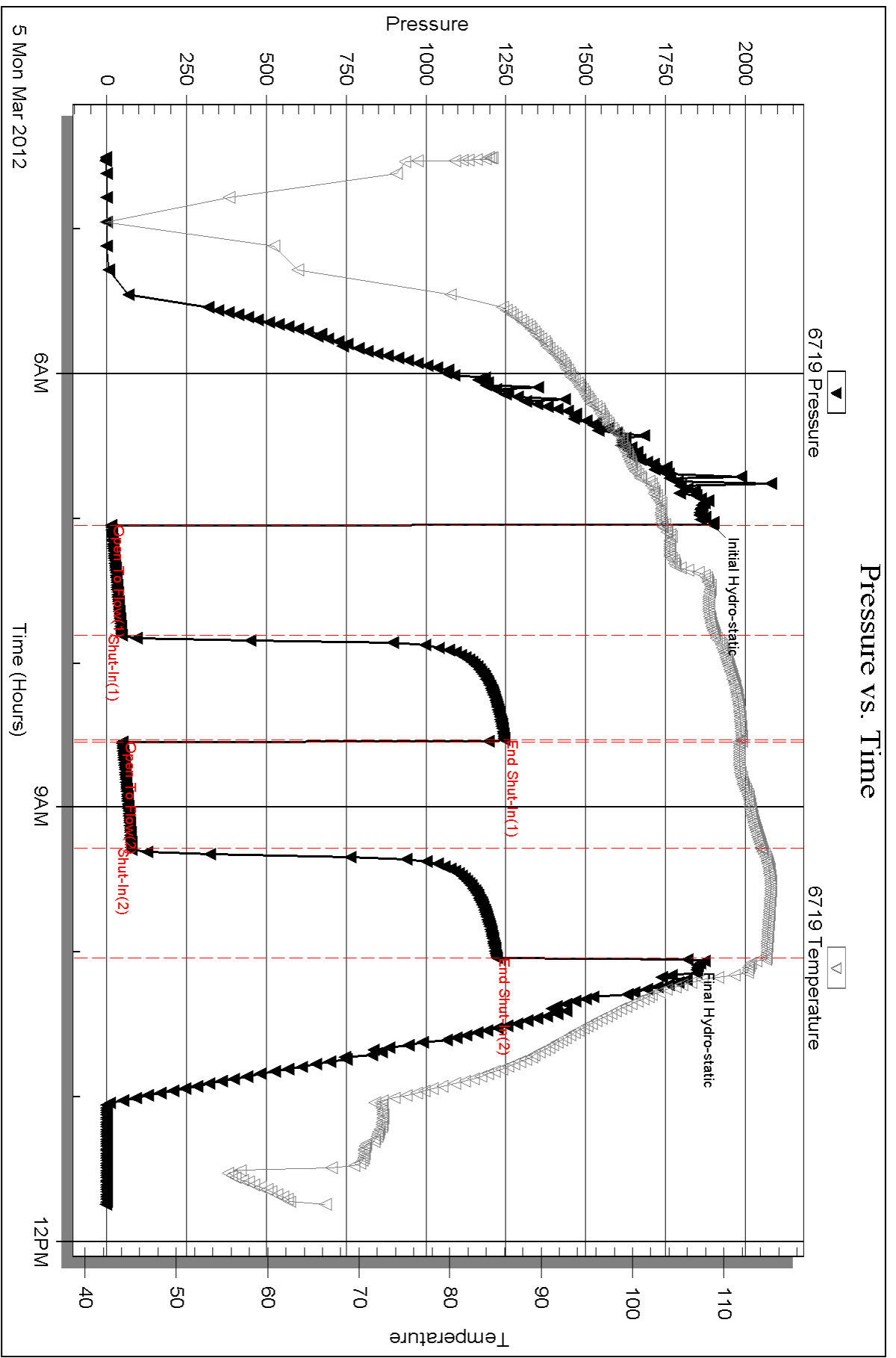
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

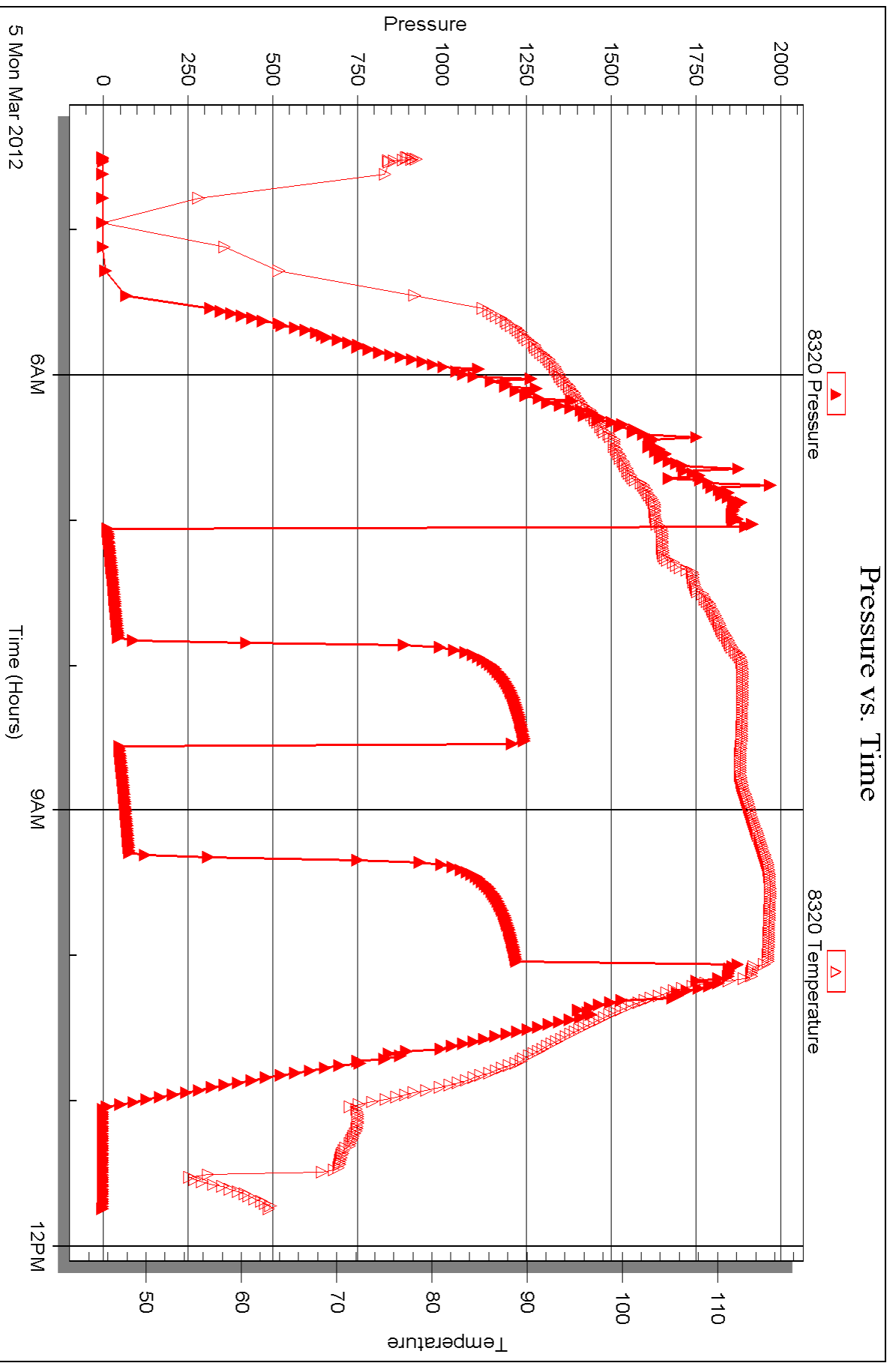


Serial #: 8320

Outside H & C Oil Operation

Darlene Day #28-1

DST Test Number: 1





## DRILL STEM TEST REPORT

Prepared For: **H & C Oil Operation**

PO Box 86  
Plainville KS 67663

ATTN: Marc Downing

### **Darlene Day #28-1**

### **28-6s-24w Graham,KS**

Start Date: 2012.03.05 @ 19:33:00

End Date: 2012.03.06 @ 03:24:00

Job Ticket #: 042988                      DST #: 2

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

Printed: 2012.03.08 @ 16:49:35



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

H & C Oil Operation

**28-6s-24w Graham,KS**

PO Box 86  
Plainville KS 67663

**Darlene Day #28-1**

Job Ticket: 042988

**DST#: 2**

ATTN: Marc Downing

Test Start: 2012.03.05 @ 19:33:00

## GENERAL INFORMATION:

Formation: **LKC "D"**

Deviated: No Whipstock: 2474.00 ft (KB)

Time Tool Opened: 21:45:00

Time Test Ended: 03:24:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Jim Svaty

Unit No: 57

**Interval: 3793.00 ft (KB) To 3814.00 ft (KB) (TVD)**

Reference Elevations: 2474.00 ft (KB)

Total Depth: 3814.00 ft (KB) (TVD)

2469.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

## Serial #: 6719

Inside

Press @ Run Depth: 90.92 psig @ 3793.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.03.05

End Date:

2012.03.06

Last Calib.:

2012.03.06

Start Time:

19:33:05

End Time:

03:23:59

Time On Btm:

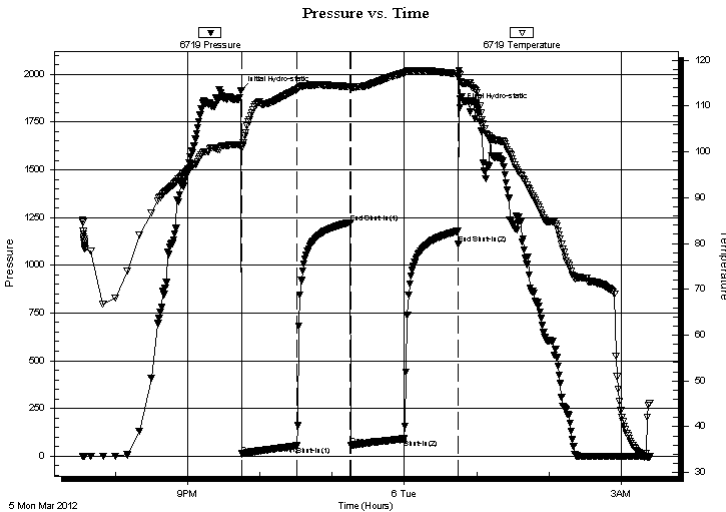
2012.03.05 @ 21:44:30

Time Off Btm:

2012.03.06 @ 00:46:00

**TEST COMMENT:** 45-IFP-Surface Blow Building to 10"  
45-ISIP-No Blow  
45-FFP-Surface Blow Building to 8"  
45-FSIP-No Blow

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1914.36	101.54	Initial Hydro-static
1	11.68	100.68	Open To Flow (1)
46	53.23	113.61	Shut-In(1)
91	1224.05	114.19	End Shut-In(1)
91	56.43	113.84	Open To Flow (2)
135	90.92	117.20	Shut-In(2)
181	1111.79	116.99	End Shut-In(2)
182	1824.37	116.74	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
68.00	MCW 20% m 80% w	0.95
62.00	SLMCW 8% m 92% w	0.87

\* Recovery from multiple tests

## Gas Rates

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





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

H & C Oil Operation

**28-6s-24w Graham,KS**

PO Box 86  
Plainville KS 67663

**Darlene Day #28-1**

Job Ticket: 042988

**DST#: 2**

ATTN: Marc Downing

Test Start: 2012.03.05 @ 19:33:00

## Tool Information

Drill Pipe:	Length: 3806.00 ft	Diameter: 3.80 inches	Volume: 53.39 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: 53.39 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	33.00 ft			String Weight: Initial 56000.00 lb
Depth to Top Packer:	3793.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	21.00 ft			
Tool Length:	41.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Shut In Tool	5.00			3778.00	
Hydraulic tool	5.00			3783.00	
Packer	5.00			3788.00	20.00 Bottom Of Top Packer
Packer	5.00			3793.00	
Recorder	0.00	6719	Inside	3793.00	
Recorder	0.00	8320	Outside	3793.00	
Perforations	18.00			3811.00	
Bullnose	3.00			3814.00	21.00 Bottom Packers & Anchor

**Total Tool Length: 41.00**





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

H & C Oil Operation

**28-6s-24w Graham,KS**

PO Box 86  
Plainville KS 67663

**Darlene Day #28-1**

Job Ticket: 042988

**DST#: 2**

ATTN: Marc Downing

Test Start: 2012.03.05 @ 19:33:00

## 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:

3800 ppm

Viscosity: 58.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.36 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1600.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
68.00	MCW 20%m 80%w	0.954
62.00	SLMCW 8%m 92%w	0.870

Total Length: 130.00 ft

Total Volume: 1.824 bbl

Num Fluid Samples: 0

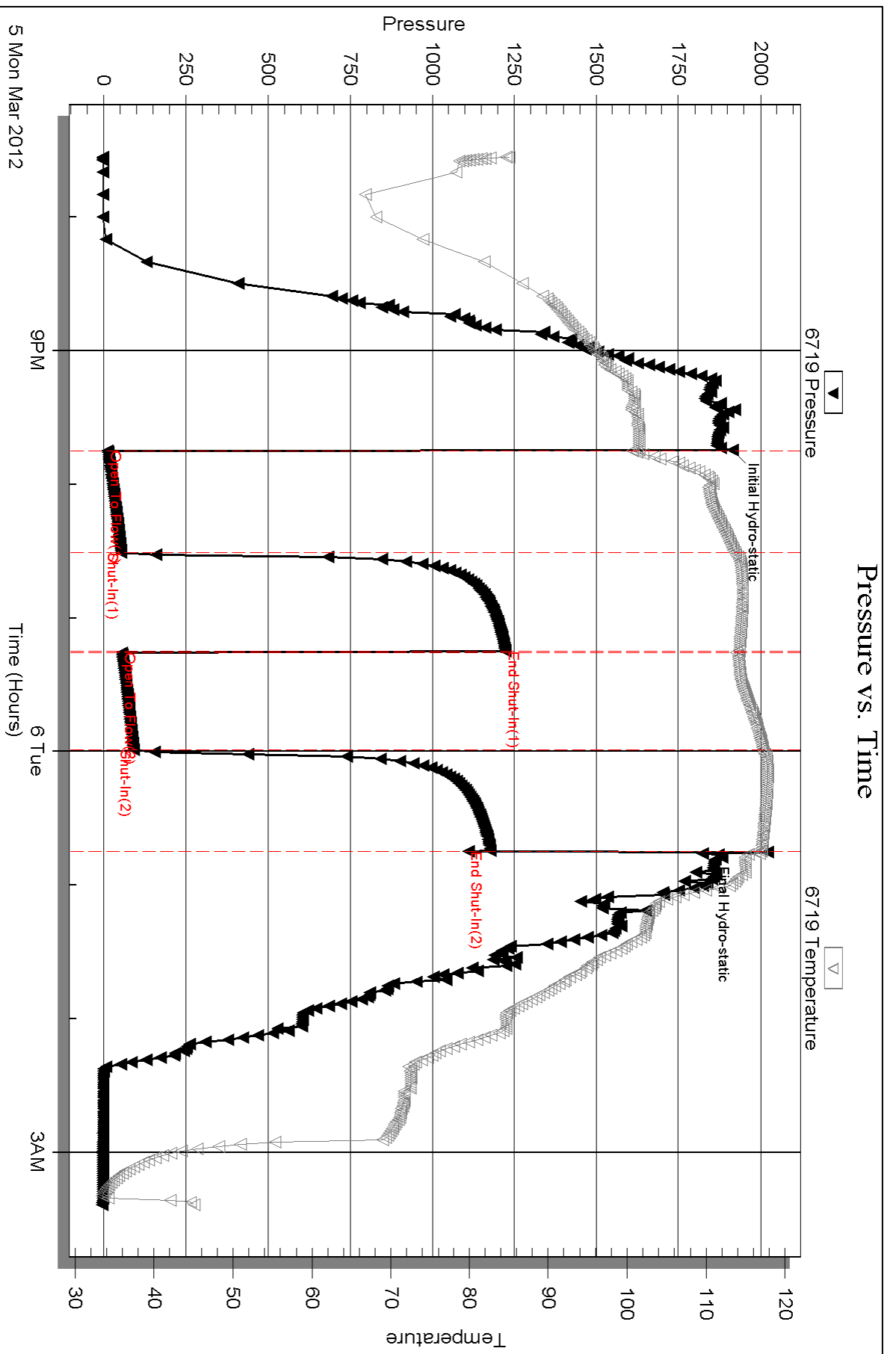
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

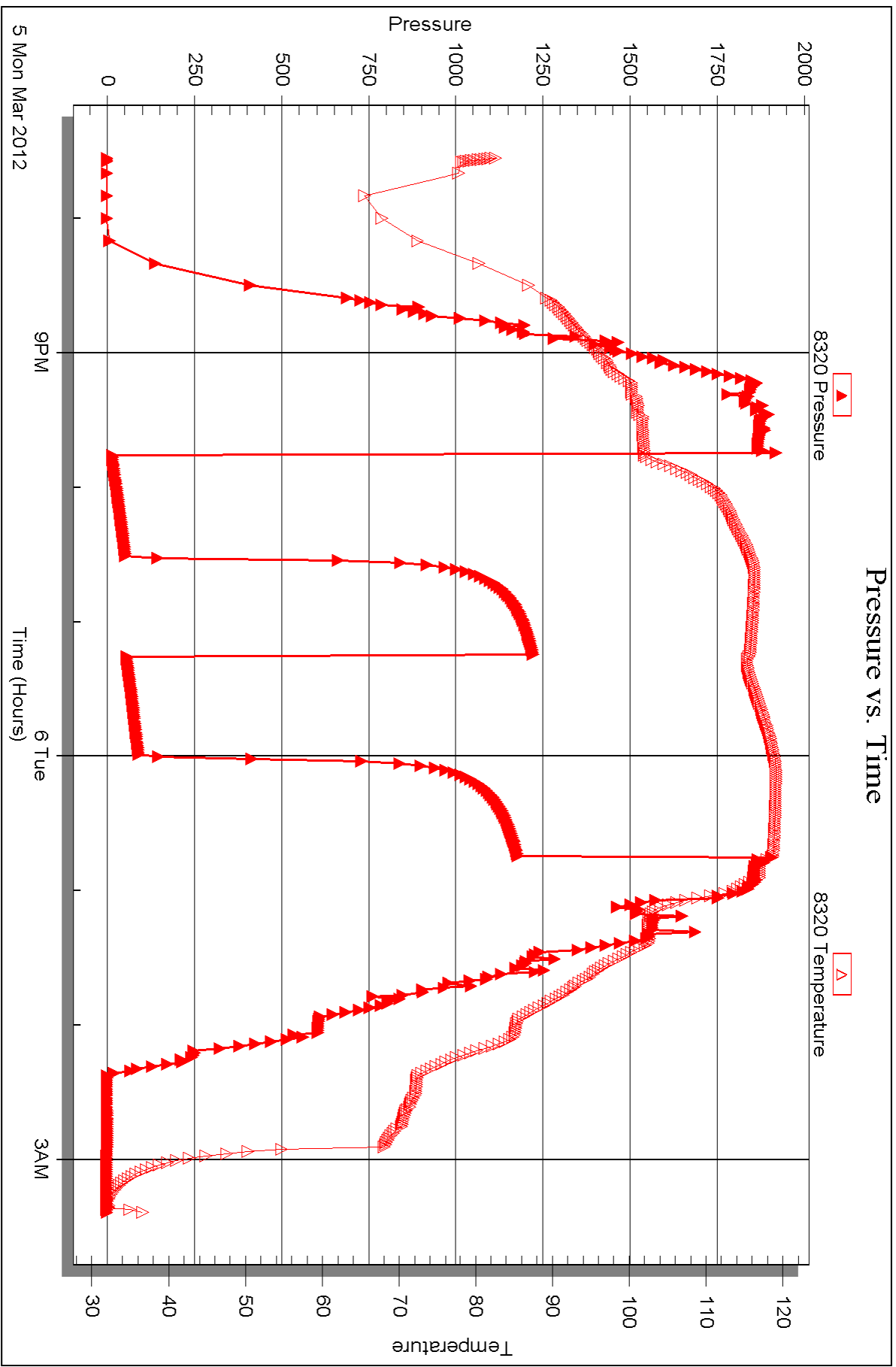


Serial #: 8320

Outside H & C Oil Operation

Darlene Day #28-1

DST Test Number: 2





## DRILL STEM TEST REPORT

Prepared For: **H & C Oil Operation**

PO Box 86  
Plainville KS 67663

ATTN: Marc Downing

### **Darlene Day #28-1**

### **28-6s-24w Graham,KS**

Start Date: 2012.03.06 @ 17:00:00

End Date: 2012.03.07 @ 00:12:00

Job Ticket #: 042989                      DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.03.08 @ 16:41:17

H & C Oil Operation

28-6s-24w Graham,KS

Darlene Day #28-1

DST # 3

LKC "J"

2012.03.06



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

H & C Oil Operation

**28-6s-24w Graham,KS**

PO Box 86  
Plainville KS 67663

**Darlene Day #28-1**

Job Ticket: 042989

**DST#: 3**

ATTN: Marc Downing

Test Start: 2012.03.06 @ 17:00:00

## GENERAL INFORMATION:

Formation: **LKC "J"**

Deviated: No Whipstock: 2474.00 ft (KB)

Time Tool Opened: 19:08:30

Time Test Ended: 00:12:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Jim Svaty

Unit No: 57

**Interval: 3885.00 ft (KB) To 3912.00 ft (KB) (TVD)**

Total Depth: 3912.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2474.00 ft (KB)

2469.00 ft (CF)

KB to GR/CF: 5.00 ft

## Serial #: 6719

Inside

Press @ Run Depth: 136.94 psig @ 3886.00 ft (KB)

Start Date: 2012.03.06

End Date:

2012.03.07

Start Time: 17:00:05

End Time:

00:11:59

Capacity: 8000.00 psig

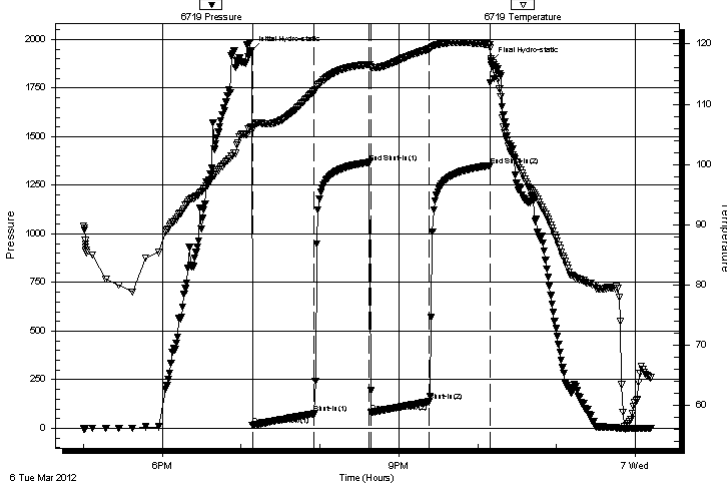
Last Calib.: 2012.03.07

Time On Btm: 2012.03.06 @ 19:08:00

Time Off Btm: 2012.03.06 @ 22:10:00

**TEST COMMENT:** 45-IFP- BOB in 32 min  
45-ISIP- No Blow  
45-FFP- BOB in 38 min  
45-FSIP- No Blow

Pressure vs. Time



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1943.08	106.30	Initial Hydro-static
1	15.49	105.83	Open To Flow (1)
48	75.15	112.19	Shut-In(1)
90	1368.55	116.58	End Shut-In(1)
91	82.42	116.04	Open To Flow (2)
135	136.94	119.17	Shut-In(2)
181	1351.81	119.91	End Shut-In(2)
182	1885.70	117.54	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
130.00	MCW 30% m 70% w	1.82
124.00	MCW 5% m 95% w	1.74

## Gas Rates

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

\* Recovery from multiple tests





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

H & C Oil Operation

**28-6s-24w Graham,KS**

PO Box 86  
Plainville KS 67663

**Darlene Day #28-1**

Job Ticket: 042989

**DST#: 3**

ATTN: Marc Downing

Test Start: 2012.03.06 @ 17:00:00

## Tool Information

Drill Pipe:	Length: 3870.00 ft	Diameter: 3.80 inches	Volume: 54.29 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:	66000.00 lb
			<u>Total Volume: 54.29 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial	56000.00 lb
Depth to Top Packer:	3885.00 ft			Final	62000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	27.00 ft				
Tool Length:	47.00 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			3870.00	
Hydraulic tool	5.00			3875.00	
Packer	5.00			3880.00	20.00 Bottom Of Top Packer
Packer	5.00			3885.00	
Stubb	1.00			3886.00	
Recorder	0.00	6719	Inside	3886.00	
Recorder	0.00	8320	Outside	3886.00	
Perforations	23.00			3909.00	
Bullnose	3.00			3912.00	27.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>47.00</b>				



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

H & C Oil Operation

**28-6s-24w Graham,KS**

PO Box 86  
Plainville KS 67663

**Darlene Day #28-1**

Job Ticket: 042989

**DST#: 3**

ATTN: Marc Downing

Test Start: 2012.03.06 @ 17:00:00

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 10.00 lb/gal

Cushion Length:

ft

Water Salinity:

3800 ppm

Viscosity: 68.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.16 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1700.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
130.00	MCW 30% <i>m</i> 70% <i>w</i>	1.824
124.00	MCW 5% <i>m</i> 95% <i>w</i>	1.739

Total Length: 254.00 ft

Total Volume: 3.563 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

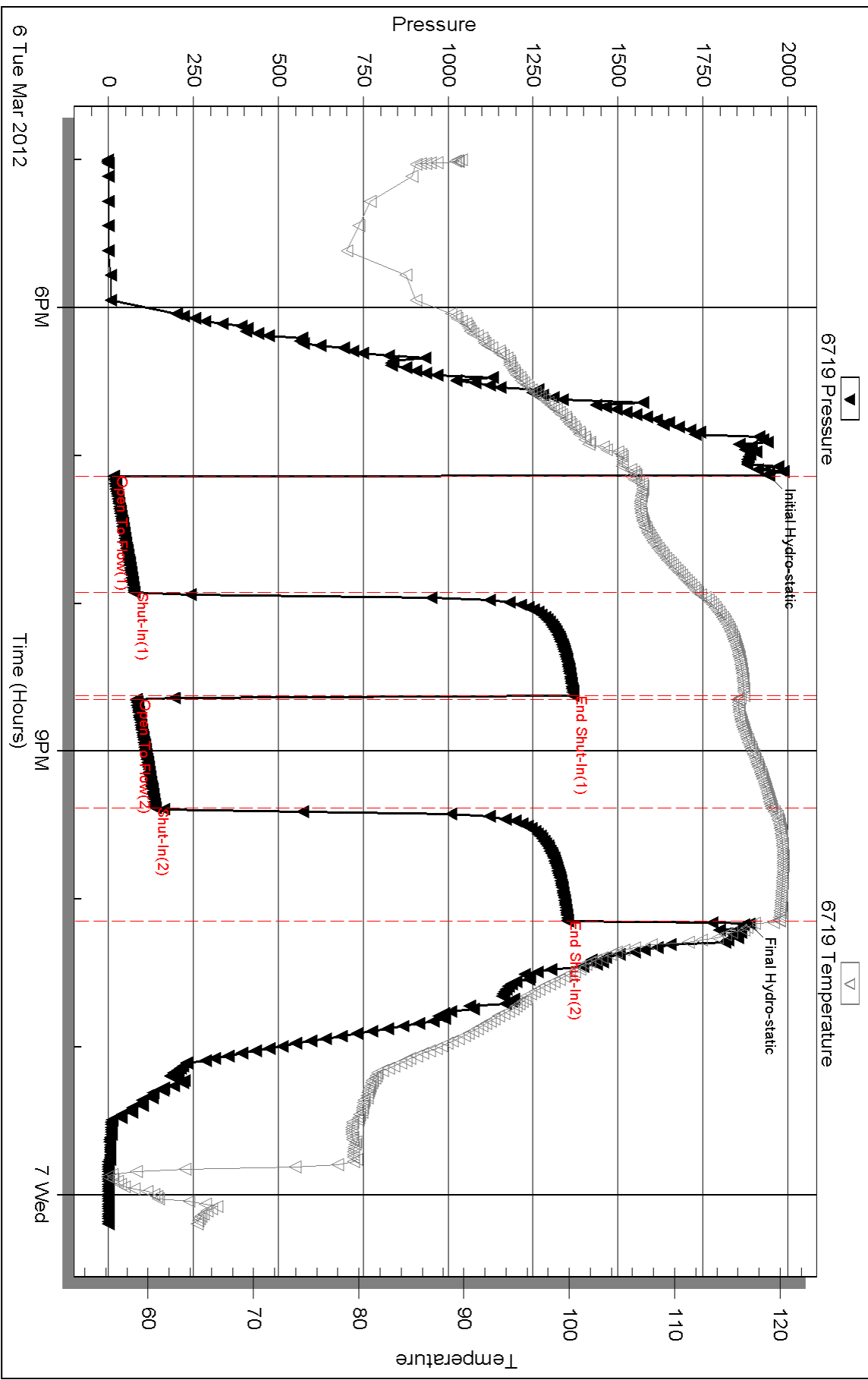
Laboratory Name:

Laboratory Location:

Recovery Comments:



### Pressure vs. Time

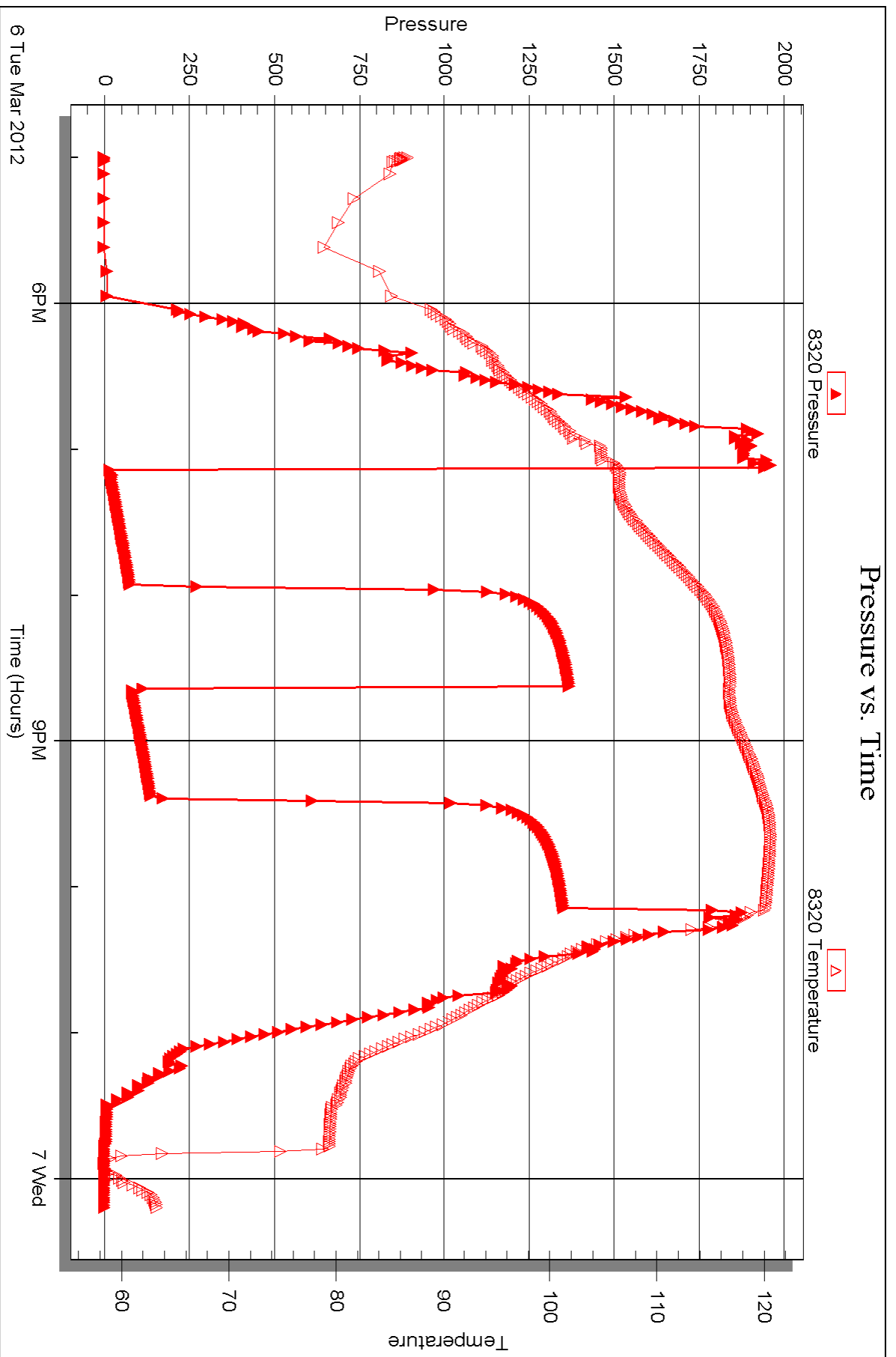


Serial #: 8320

Outside H & C Oil Operation

Darlene Day #28-1

DST Test Number: 3





## DRILL STEM TEST REPORT

Prepared For: **H & C Oil Operation**

PO Box 86  
Plainville KS 67663

ATTN: Marc Downing

**Darlene Day #28-1**

**28-6s-24w Graham,KS**

Start Date: 2012.03.07 @ 08:11:00

End Date: 2012.03.07 @ 15:01:00

Job Ticket #: 042990                      DST #: 4

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.03.08 @ 16:40:02

H & C Oil Operation  
28-6s-24w Graham,KS  
Darlene Day #28-1  
DST # 4  
LKC "K&L"  
2012.03.07



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

H & C Oil Operation

**28-6s-24w Graham,KS**

PO Box 86  
Plainville KS 67663

**Darlene Day #28-1**

Job Ticket: 042990

**DST#: 4**

ATTN: Marc Downing

Test Start: 2012.03.07 @ 08:11:00

## GENERAL INFORMATION:

Formation: **LKC "K&L"**

Deviated: No Whipstock: 2474.00 ft (KB)

Time Tool Opened: 10:14:00

Time Test Ended: 15:01:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Jim Svaty

Unit No: 57

**Interval: 3907.00 ft (KB) To 3944.00 ft (KB) (TVD)**

Reference Elevations: 2474.00 ft (KB)

Total Depth: 3944.00 ft (KB) (TVD)

2469.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

**Serial #: 6719**

**Inside**

Press @ Run Depth: 66.52 psig @ 3908.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.03.07

End Date:

2012.03.07

Last Calib.:

2012.03.07

Start Time: 08:11:05

End Time:

15:00:29

Time On Btm:

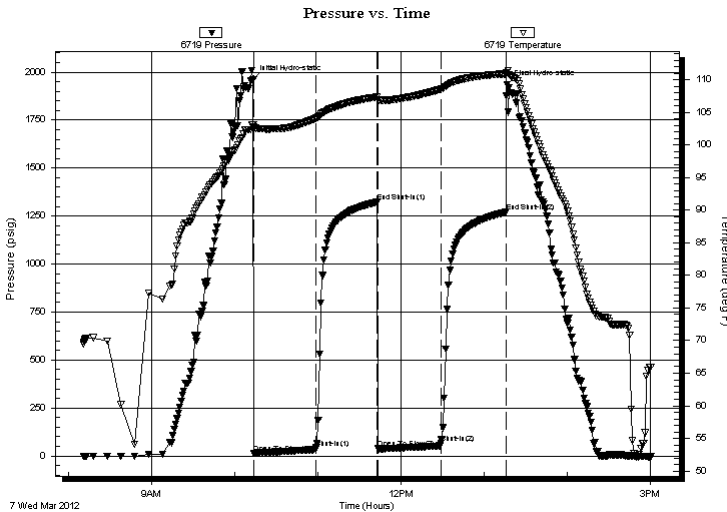
2012.03.07 @ 10:13:30

Time Off Btm:

2012.03.07 @ 13:17:00

**TEST COMMENT:** 45-IFP- Surface Blow Building to 5"  
45-ISIP- No Blow  
45-FFP- Surface Blow Building to 3"  
45-FSIP- No Blow

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1960.15	103.08	Initial Hydro-static
1	14.50	102.73	Open To Flow (1)
46	42.82	104.08	Shut-In(1)
90	1322.69	107.34	End Shut-In(1)
90	39.50	106.95	Open To Flow (2)
136	66.52	108.55	Shut-In(2)
183	1270.51	110.87	End Shut-In(2)
184	1934.28	111.07	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
68.00	MCW 30% m 70% w	0.95

## Gas Rates

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

\* Recovery from multiple tests





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

H & C Oil Operation

**28-6s-24w Graham,KS**

PO Box 86  
Plainville KS 67663

**Darlene Day #28-1**

Job Ticket: 042990

**DST#: 4**

ATTN: Marc Downing

Test Start: 2012.03.07 @ 08:11:00

## Tool Information

Drill Pipe:	Length: 3900.00 ft	Diameter: 3.80 inches	Volume: 54.71 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: 88000.00 lb
			<u>Total Volume: 54.71 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	13.00 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	3907.00 ft			Final 58000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	37.00 ft			
Tool Length:	57.00 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			3892.00	
Hydraulic tool	5.00			3897.00	
Packer	5.00			3902.00	20.00 Bottom Of Top Packer
Packer	5.00			3907.00	
Stubb	1.00			3908.00	
Recorder	0.00	6719	Inside	3908.00	
Recorder	0.00	8320	Outside	3908.00	
Perforations	1.00			3909.00	
Change Over Sub	1.00			3910.00	
Blank Spacing	30.00			3940.00	
Change Over Sub	1.00			3941.00	
Bullnose	3.00			3944.00	37.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>		<b>57.00</b>			



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

H & C Oil Operation

**28-6s-24w Graham,KS**

PO Box 86  
Plainville KS 67663

**Darlene Day #28-1**

Job Ticket: 042990

**DST#: 4**

ATTN: Marc Downing

Test Start: 2012.03.07 @ 08:11:00

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 10.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 61.00 sec/qt

Cushion Volume:

bbbl

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

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
68.00	MCW 30%m 70%w	0.954

Total Length: 68.00 ft      Total Volume: 0.954 bbl

Num Fluid Samples: 0

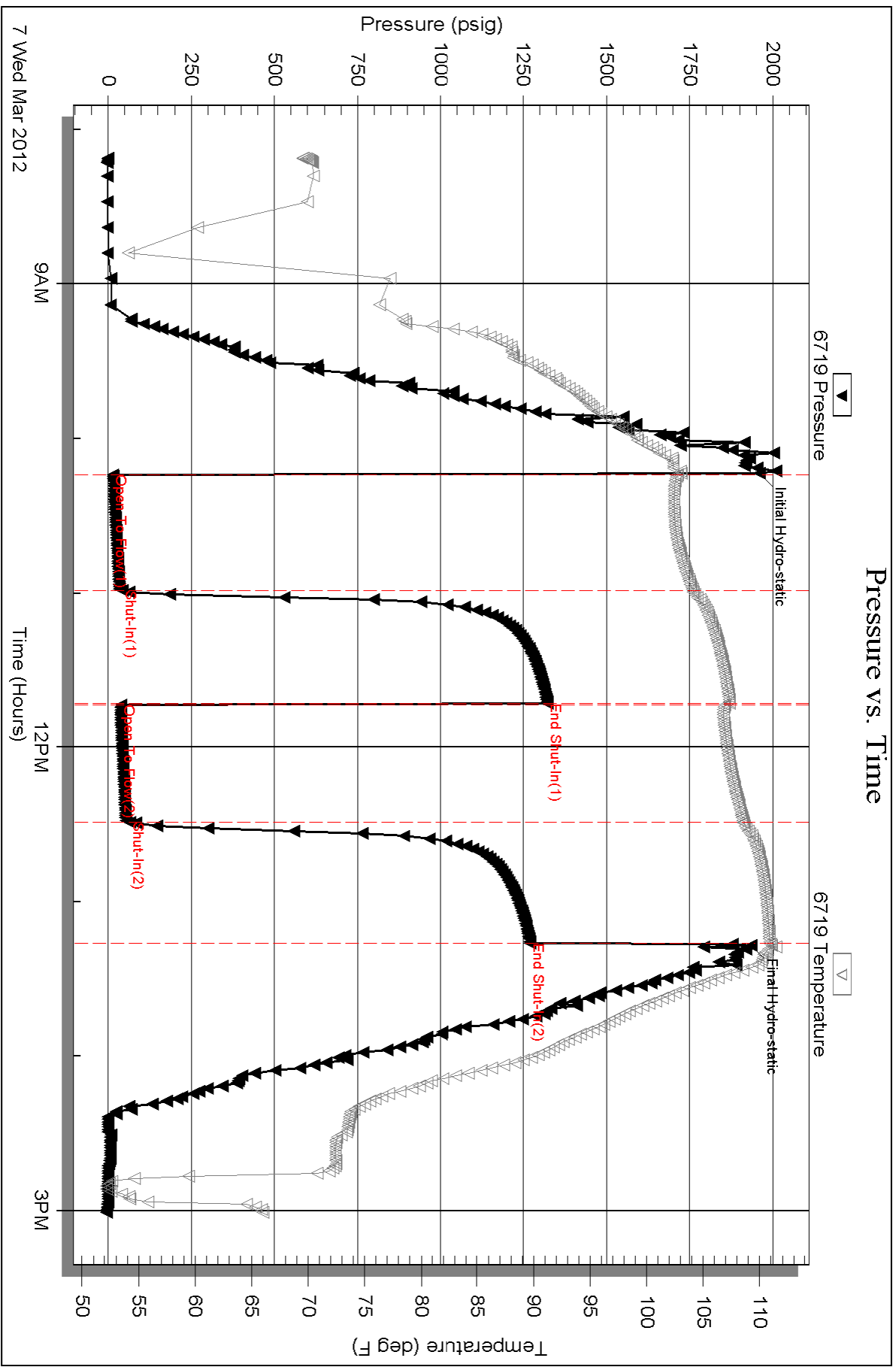
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



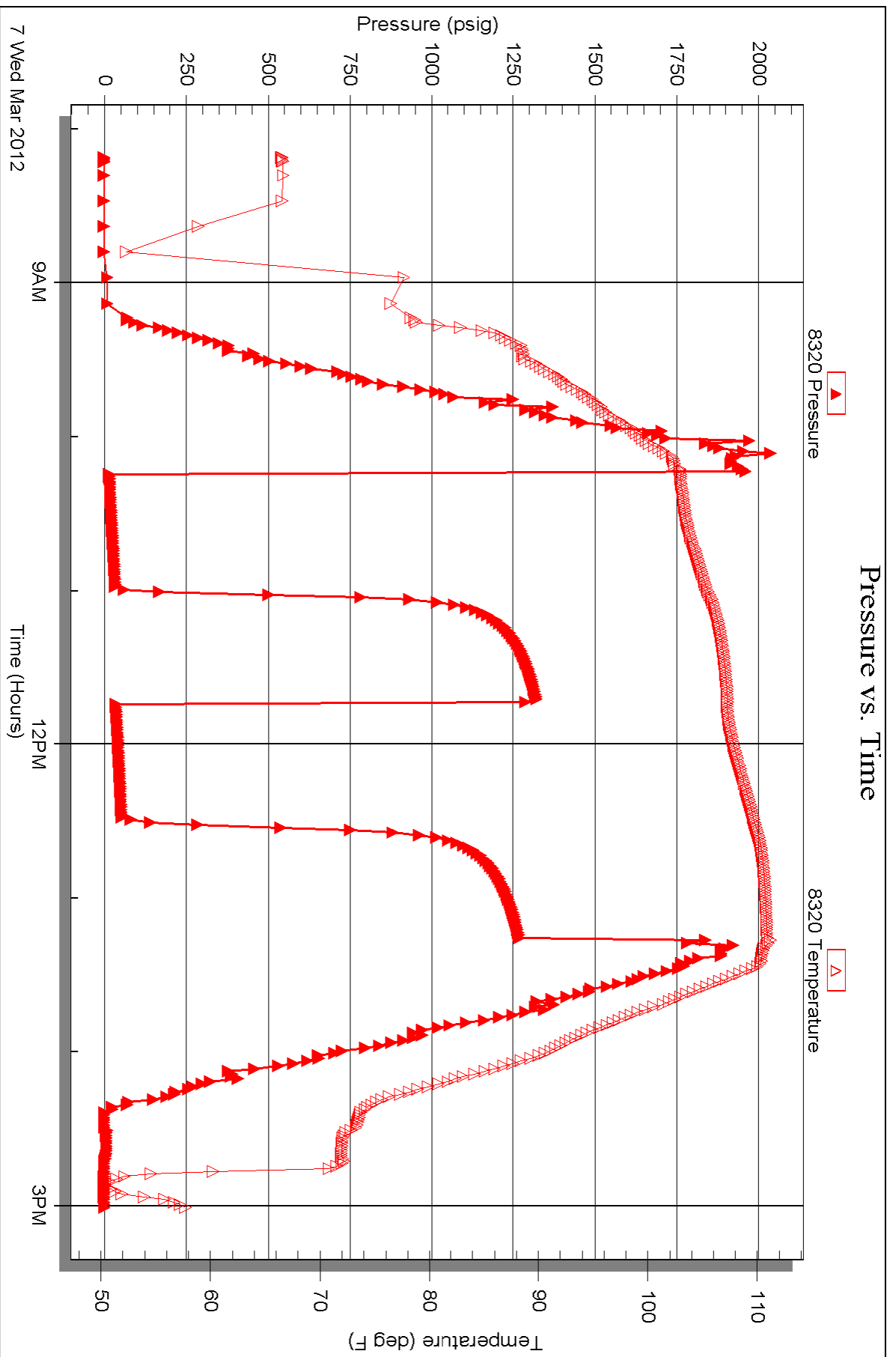


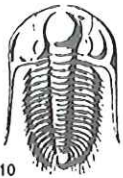
Serial #: 8320

Outside H & C Oil Operation

Darlene Day #28-1

DST Test Number: 4





# TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

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## Test Ticket

NO. 042987

4/10

Well Name & No. Darlene Day # 28-1 BY: \_\_\_\_\_ Test No. 1 Date 3-5-12  
 Company H & C Oil Operation Elevation 2474 KB 2469 GL  
 Address P.O. Box 86 Plainville Ks 67663  
 Co. Rep / Geo. Mark Downing Rig Am. Eagle # 3  
 Location: Sec. 28 Twp. 6<sup>s</sup> Rge. 24<sup>w</sup> Co. Drafton State Ks

Interval Tested 3775-3798 Zone Tested LKC "C"  
 Anchor Length 23 Drill Pipe Run 3775 Mud Wt. 9  
 Top Packer Depth 3770 Drill Collars Run 0 Vis 59  
 Bottom Packer Depth 3775 Wt. Pipe Run 0 WL 6.0  
 Total Depth 3798 Chlorides 1000 ppm System LCM 2

Blow Description IFP - Surface Blow Building to 8 1/2 in.  
ISIP - NO Blow  
FFP - Surface Blow Building to 6 1/2 in.  
FSIP - NO Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>128</u>	<u>MCW</u>			<u>55</u>	<u>45</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 BHT 114 Gravity API RW @ ° F Chlorides ppm  
 (A) Initial Hydrostatic 1897  Test 1125 T-On Location 01:47  
 (B) First Initial Flow 13  Jars \_\_\_\_\_ T-Started 04:30  
 (C) First Final Flow 46  Safety Joint \_\_\_\_\_ T-Open 07:03  
 (D) Initial Shut-In 1246  Circ Sub \_\_\_\_\_ T-Pulled 10:03  
 (E) Second Initial Flow 48  Hourly Standby \_\_\_\_\_ T-Out 11:45  
 (F) Second Final Flow 78  Mileage 106RT 148.40 Comments \_\_\_\_\_  
 (G) Final Shut-In 1221  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1819  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_

Initial Open 45  Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Initial Shut-In 45  Extra Recorder \_\_\_\_\_ Sub Total 0  
 Final Flow 45  Day Standby \_\_\_\_\_ Total 127340  
 Final Shut-In 45  Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Sub Total 1273.40

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

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

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## Test Ticket

NO. 042988

4/10

BY: \_\_\_\_\_

Well Name & No. Darlene Day # 28-1 Test No. 2 Date 3-5-12  
 Company H&C Oil Operation Elevation 2474 KB 2469 GL  
 Address P.O. Box 86 Plainville Ks. 67663  
 Co. Rep / Geo. Marc Downing Rig Am-Eagle #3  
 Location: Sec. 28 Twp. 6<sup>s</sup> Rge. 24<sup>w</sup> Co. Graham State KS

Interval Tested 3793-3814 Zone Tested LKC "D"  
 Anchor Length 21 Drill Pipe Run 3806 Mud Wt. 9.4  
 Top Packer Depth 3788 Drill Collars Run 0 Vis 58  
 Bottom Packer Depth 3793 Wt. Pipe Run 0 WL 6.4  
 Total Depth 3814 Chlorides 1600 ppm System LCM 2

Blow Description FFP - Surface Blow Building to 10 in.  
FSIP - No Blow  
FFP - Surface Blow Building to 8 in  
FSIP - No Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>68</u>	<u>MCW</u>			<u>80</u>	<u>20</u>
<u>62</u>	<u>5 LMCW</u>			<u>92</u>	<u>8</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 130 BHT 117 Gravity \_\_\_\_\_ API RW 1186 @ 61 ° F Chlorides 5000 ppm

(A) Initial Hydrostatic 1914  Test 1125 T-On Location 19:15  
 (B) First Initial Flow 11  Jars \_\_\_\_\_ T-Started 19:33  
 (C) First Final Flow 53  Safety Joint \_\_\_\_\_ T-Open 21:45  
 (D) Initial Shut-In 1224  Circ Sub \_\_\_\_\_ T-Pulled 00:45  
 (E) Second Initial Flow 56  Hourly Standby \_\_\_\_\_ T-Out 03:24  
 (F) Second Final Flow 91  Mileage 106 RT 148.40 Comments \_\_\_\_\_  
 (G) Final Shut-In 1112  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1824  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_

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

Sub Total 1273.40  
 Total 1273.40  
 MP/DST Disc't \_\_\_\_\_

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

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# TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

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MAR 08 2012

## Test Ticket

NO. 042989

Well Name & No. Darlene Day #28-1 BY: \_\_\_\_\_ Test No. 2 Date 3-6-12  
 Company H & C Oil Operation Elevation 2474 KB 2469 GL \_\_\_\_\_  
 Address P.O. Box 86 Plainville Ks. 67663  
 Co. Rep / Geo. Marc Downing Rig Am. Eagle #3  
 Location: Sec. 28 Twp. 65 Rge. 24<sup>W</sup> Co. Abraham State Ks

Interval Tested 3885 - 3912 Zone Tested LKC "J"  
 Anchor Length 27' Drill Pipe Run 3870 Mud Wt. 9.5  
 Top Packer Depth 3880 Drill Collars Run 0 Vis 68  
 Bottom Packer Depth 3885 Wt. Pipe Run 0 WL 7.2  
 Total Depth 3912 Chlorides 1700 ppm System LCM 1

Blow Description FFP - BOB in 32min  
FSTP - No Blow  
FFP - BOB in 38min  
FSTP No Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>130</u>	<u>MCW</u>		<u>70</u>	<u>30</u>	
<u>124</u>	<u>MCW</u>		<u>95</u>	<u>5</u>	
Rec _____	Feet of _____	%gas _____	%oil _____	%water _____	%mud _____
Rec _____	Feet of _____	%gas _____	%oil _____	%water _____	%mud _____
Rec _____	Feet of _____	%gas _____	%oil _____	%water _____	%mud _____

Rec Total 254 BHT 119 Gravity \_\_\_\_\_ API RW 0.189 @ 64 °F Chlorides 59000 ppm

(A) Initial Hydrostatic 1943  Test 1125' T-On Location 16:12  
 (B) First Initial Flow 15  Jars \_\_\_\_\_ T-Started 17:00  
 (C) First Final Flow 75  Safety Joint \_\_\_\_\_ T-Open 19:08  
 (D) Initial Shut-In 1368  Circ Sub \_\_\_\_\_ T-Pulled 22:08  
 (E) Second Initial Flow 82  Hourly Standby \_\_\_\_\_ T-Out 00:12  
 (F) Second Final Flow 137  Mileage 106.85 148.40 Comments \_\_\_\_\_  
 (G) Final Shut-In 1352  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1885  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_

Initial Open 45  Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Initial Shut-In 45  Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Final Flow 45  Extra Recorder \_\_\_\_\_ Sub Total 0  
 Final Shut-In 45  Day Standby \_\_\_\_\_ Total 1273.40  
 Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Sub Total 1273.40

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

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.



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P.O. Box 1733 • Hays, Kansas 67601

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MAR 08 2012

## Test Ticket

NO. 042990

Well Name & No. Darlene Day # 28-1 BY: \_\_\_\_\_ Test No. 4 Date 3-7-12  
 Company H+C Oil Operation Elevation 2474 KB 2469 GL \_\_\_\_\_  
 Address P.O. Box 86 Plainville Ks. 67663  
 Co. Rep / Geo. Marc Downing Rig Am. Eagle #3  
 Location: Sec. 28 Twp. 6<sup>s</sup> Rge. 24<sup>w</sup> Co. Graham State KS

Interval Tested 3907-3944 Zone Tested LRC "K&L"  
 Anchor Length 37 Drill Pipe Run \_\_\_\_\_ Mud Wt. 9.5  
 Top Packer Depth 3902 Drill Collars Run 0 Vis 61  
 Bottom Packer Depth 3907 Wt. Pipe Run 0 WL 7.2  
 Total Depth 3944 Chlorides 2000 ppm System LCM 2

Blow Description IFP - Surface Blow Building to 5 in.  
ISIP - No Blow  
FFP - Surface Blow Building to 3 in.  
FSIP - No Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>68</u>	<u>MCW</u>		<u>70</u>	<u>30</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 68 BHT 110 Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic 1960  Test 1125 T-On Location 07:50  
 (B) First Initial Flow 14  Jars \_\_\_\_\_ T-Started 08:11  
 (C) First Final Flow 42  Safety Joint \_\_\_\_\_ T-Open 10:14  
 (D) Initial Shut-In 1322  Circ Sub \_\_\_\_\_ T-Pulled 13:14  
 (E) Second Initial Flow 39  Hourly Standby \_\_\_\_\_ T-Out 15:01  
 (F) Second Final Flow 66  Mileage 106 RT 148.40 Comments \_\_\_\_\_  
 (G) Final Shut-In 1270  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1934  Straddle \_\_\_\_\_

Ruined Shale Packer  
 Ruined Packer  
 Extra Copies  
 Initial Open 45  
 Initial Shut-In 45  
 Final Flow 45  
 Final Shut-In 45  
 Extra Packer  
 Extra Recorder  
 Day Standby  
 Accessibility

Sub Total 1273.40 MP/DST Disc't \_\_\_\_\_

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

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.



