



KANSAS CORPORATION COMMISSION 1089421
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 # 33786
Name: Double D's LLC
Address 1: 133 E 12TH
Address 2: _____
City: HAYS State: KS Zip: 67601 + 3607
Contact Person: Duane Bieker
Phone: (785) 230-0113
CONTRACTOR: License # 5184
Name: Shields Oil Producers Inc.
Wellsite Geologist: Al Downing
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 #: _____

<u>07/20/2012</u>	<u>07/27/2012</u>	<u>07/27/2012</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-051-26334-00-00
Spot Description: _____
E2_NE_NE_NW Sec. 24 Twp. 13 S. R. 20 East West
330 Feet from North / South Line of Section
2400 Feet from East / West Line of Section
Footages Calculated from Nearest Outside Section Corner:
 NE NW SE SW
County: Ellis
Lease Name: Johnston Well #: 1
Field Name: _____
Producing Formation: Arbuckle
Elevation: Ground: 2113 Kelly Bushing: 2020
Total Depth: 3844 Plug Back Total Depth: _____
Amount of Surface Pipe Set and Cemented at: 218 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: 18000 ppm Fluid volume: 160 bbls
Dewatering method used: Hauled to Disposal
Location of fluid disposal if hauled offsite:
Operator Name: Gene Karlin
Lease Name: Nuss (swd) License #: 34444
Quarter NE Sec. 5 Twp. 13 S. R. 17 East West
County: Ellis Permit #: D-25588

AFFIDAVIT

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

Submitted Electronically

KCC Office Use ONLY

Letter of Confidentiality Received
Date: _____

Confidential Release Date: _____

Wireline Log Received

Geologist Report Received

UIC Distribution

ALT I II III Approved by: Deanna Garbar Date: 08/16/2012



1089421

Operator Name: Double D's LLC Lease Name: Johnston Well #: 1
 Sec. 24 Twp. 13 S. R. 20 East West County: Ellis

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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Submitted Electronically <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i> List All E. Logs Run: Attached	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input checked="" type="checkbox"/> Sample Name Top Datum Attached Attached Attached
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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 Pip	12.25	8.625	23	218	Common	150	3% cc 2% gel

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
___ Perforate ___ Protect Casing <input checked="" type="checkbox"/> Plug Back TD <input checked="" type="checkbox"/> Plug Off Zone	0-3849	Common Class-A	147	60/40 4%Gel

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: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain) _____		
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls. Gas-Oil Ratio Gravity

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 checked="" type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Double D's LLC
Well Name	Johnston 1
Doc ID	1089421

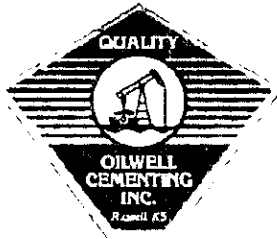
All Electric Logs Run

Sonic
Neutron Density
Dual Induction
Compensated Density

Form	ACO1 - Well Completion
Operator	Double D's LLC
Well Name	Johnston 1
Doc ID	1089421

Tops

Anhydrite	1468	+653
Base	1502	+619
Topeka	3168	-1051
Heebner	3405	-1288
Toronto	3426	-1309
Lansing	3446	-1329
BKC	3690	-1573
Marmaton	3742	-1626
Arbuckle	3790	-1673



QUALITY OILWELL CEMENTING, INC.
 PO Box 32 - 740 West Wichita Ave, Russell KS 67665
 Phone:785-324-1041 fax:785-483-1087
 Email: cementing@ruraltel.net

Date: 7/24/2012
 Invoice # 755
 P.O.#:
 Due Date: 8/23/2012
 Division: *Russell*

Invoice

Contact:
 DOUBLE D'S
Address/Job Location:
 DOUBLE D'S
 133 E 12TH
 HAYS KS 67601

Reference:
 JOHNSTON 1

Description of Work:
 SURFACE JOB

Services / Items Included:	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 1,239.23	No				
Common-Class A	150	\$ 1,986.86	Yes				
Bulk Truck Matl-Material Service Charge	158	\$ 343.09	No				
Calcium Chloride	5	\$ 258.73	Yes				
Pump Truck Mileage-Job to Nearest Camp	17	\$ 184.20	No				
Bulk Truck Mileage-Job to Nearest Bulk Plant	17	\$ 107.79	No				
Premium Gel (Bentonite)	3	\$ 53.03	Yes				

Invoice Terms:

Net 30

SubTotal: \$ 4,172.92
Discount Available ONLY if Invoice is Paid & Received within listed terms of invoice: \$ (625.94)

SubTotal for Taxable Items:	\$ 1,953.82
SubTotal for Non-Taxable Items:	\$ 1,593.17
Total:	\$ 3,546.98
Tax:	\$ 123.09

6.30% Ellis County Sales Tax

Thank You For Your Business!

Amount Due: \$ 3,670.07
Applied Payments:
Balance Due: \$ 3,670.07

Past Due Invoices are subject to a service charge (annual rate of 24%)
 This does not include any applicable taxes unless it is listed.
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QUALITY OILWELL CEMENTING, INC.

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

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

No. 755

Date	7-20-12	Sec.	24	Twp.	13	Range	20	County	Ellis	State	KS	On Location	12:00 P.M.
Lease	Johnston		Well No.	Location									
Cementing Hwy 40 w to 1600' 1/2" into													
Contractor	Shields												
Type Job	Surface												
Hole Size	12 1/4		T.D.	221									
Csg.	8 5/8		Depth	218									
Tbg. Size			Depth										
Tool			Depth										
Cement Left in Csg.	15'		Shoe Joint										
Meas Line			Displace	13.80									
Cement Amount Ordered 150 lbm 30 lb 2 1/2 lb													

EQUIPMENT

Pumptrk	9	No.	Cementer	raig	Common	150
			Helper			
Bulktrk		No.	Driver	Matt	Poz. Mix	
			Driver			
Bulktrk	14	No.	Driver	Doug	Gel.	3
			Driver			
JOB SERVICES & REMARKS					Calcium	5

Remarks:	Hulls
Rat Hole	Salt
Mouse Hole	Flowseal
Centralizers	Kol-Seal
Baskets	Mud CLR 48
D/V or Port Collar	CFL-117 or CD110 CAF 38
8 5/8 on bottom. Est Circulation.	Sand
Mix 150 sk + Displace Plug.	Handling 158
	Mileage

Cement (circulated)

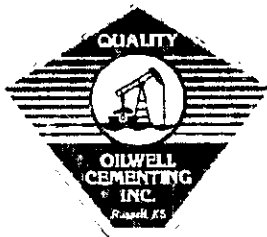
FLOAT EQUIPMENT

Guide Shoe	
Centralizer	8 5/8 wooden Plug
Baskets	
AFU Inserts	
Float Shoe	
Latch Down	
Pumptrk Charge	Surface
Mileage	17

Shawn K. [Signature]

X Signature

	Tax
	Discount
	Total Charge



QUALITY OILWELL CEMENTING, INC.
 PO Box 32 - 740 West Wichita Ave, Russell KS 67665
 Phone: 785-324-1041 fax: 785-483-1087
 Email: cementing@ruraltel.net

Date: 7/29/2012
 Invoice # 760
 P.O.#:
 Due Date: 8/28/2012
 Division: Russell

Invoice

Contact:
 DOUBLE D'S
Address/Job Location:
 DOUBLE D'S
 133 E 12TH
 HAYS KS 67601

Reference:
 JOHNSTON 1

Description of Work:
 PLUG JOB

Services / Items Included:	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 1,487.08	Yes				
Common-Class A	147	\$ 1,947.12	Yes				
Bulk Truck Mat-Material Service Charge	254	\$ 551.54	Yes				
POZ Mix-Standard	98	\$ 489.44	Yes				
Pump Truck Mileage-Job to Nearest Camp	17	\$ 184.20	Yes				
Flo Seal	60	\$ 130.29	Yes				
Bulk Truck Mileage-Job to Nearest Bulk Plant	17	\$ 107.79	Yes				
Dry Hole Plug	1	\$ 60.80	Yes				

Invoice Terms:

Net 30

SubTotal: \$ 4,958.26
 Discount Available ONLY if Invoice is Paid & Received
 within listed terms of invoice: \$ (743.74)

SubTotal for Taxable Items:	\$ 4,214.52
SubTotal for Non-Taxable Items:	\$ -
Total:	\$ 4,214.52
Tax:	\$ 265.51

6.30% Ellis County Sales Tax

Thank You For Your Business!

Amount Due: \$ 4,480.04
Applied Payments:
Balance Due: \$ 4,480.04

Past Due Invoices are subject to a service charge (annual rate of 24%)
 This does not include any applicable taxes unless it is listed.
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QUALITY OILWELL CEMENTING, INC.

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

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

No. 760

Date	7-27-12	Sec.	Twp.	Range	County	State	On Location	Finish	
Lease	Johnston	Well No.	E		Location	Greenwood Rd 2400 W to 1600 1/2 S into			
Contractor	Shiel's	Owner		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.					
Type Job	Retract Plug	Hole Size	7 7/8	T.D.	3849				
Csg.		Depth	Charge To						Double D's
Tbg. Size		Depth	Street						
Tool		Depth	City						State
Cement Left in Csg.		Shoe Joint	The above was done to satisfaction and supervision of owner agent or contractor.						
Meas Line		Displace	Cement Amount Ordered						245 60/100 4 1/2 1/4

EQUIPMENT

Pumptrk	5	No.	Cementer	Axtom	Common	147
			Helper			
Bulktrk		No.	Driver	Craig	Poz. Mix	98
			Driver			
Bulktrk	2013	No.	Driver	Restonnie	Gel.	9
			Driver			

JOB SERVICES & REMARKS

Remarks:	Hulls
Rat Hole	3/2
Mouse Hole	15
Centralizers	Flowseal 20#
Baskets	Kol-Seal
D/V or Port Collar	Mud CLR 48
	CFL-117 or CD110 CAF 38
	Sand
	Handling 25¢
	Mileage

FLOAT EQUIPMENT

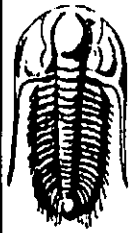
Guide Shoe	
Centralizer	8 3/8 w/ 1" plug
Baskets	
AFU Inserts	
Float Shoe	
Latch Down	

Pumptrk Charge	plug
Mileage	17

I from King

X
Signature

Tax
Discount
Total Charge



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Double D
133 E 12th
Hays, Ks 67601

24-13-20 Ellis, Ks

Johnston #1

Job Ticket: 47425

DST#: 1

ATTN: Al Downing

Test Start: 2012.07.23 @ 21:30:41

GENERAL INFORMATION:

Formation: **LKC "C-D"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:14:41

Time Test Ended: 06:01:41

Test Type: Conventional Bottom Hole (Initial)

Tester: Brian Fairbank

Unit No: 41

Interval: **3448.00 ft (KB) To 3510.00 ft (KB) (TVD)**

Reference Elevations: 2118.00 ft (KB)

Total Depth: 3510.00 ft (KB) (TVD)

2113.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: **6752**

Inside

Press@RunDepth: 324.32 psig @ 3454.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.07.23

End Date:

2012.07.24

Last Calib.: 2012.07.24

Start Time: 21:30:42

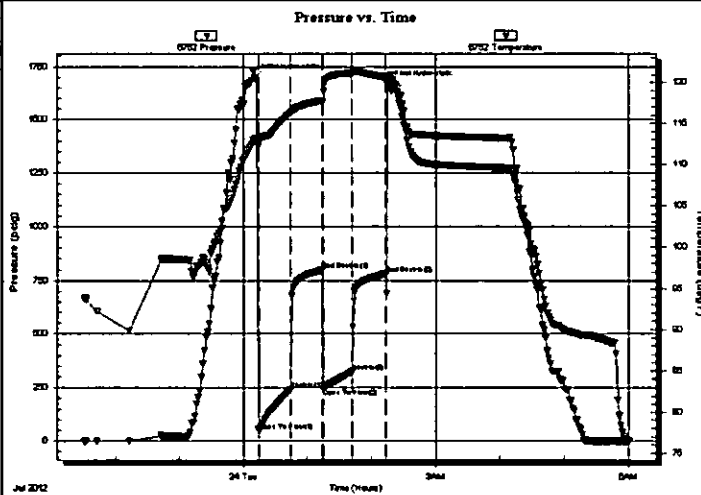
End Time:

06:01:41

Time On Btm: 2012.07.24 @ 00:11:11

Time Off Btm: 2012.07.24 @ 02:16:11

TEST COMMENT: IFP - BOB 6 min
ISI - no blow back
FFP - BOB 11 min
FSI - 1/4" blow back



PRESSURE SUMMARY

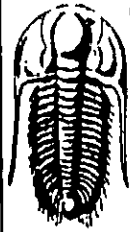
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1699.02	113.10	Initial Hydro-static
4	46.72	112.98	Open To Flow (1)
33	240.50	116.20	Shut-In(1)
63	797.29	117.73	End Shut-In(1)
64	244.42	117.54	Open To Flow (2)
91	324.32	121.13	Shut-In(2)
123	779.72	120.62	End Shut-In(2)
125	1667.04	120.76	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
525.00	MW 95%W, 5%M	3.11
75.00	GW & OCM 10%G, 15%O, 15%W, 60%M	1.05
15.00	FREE OIL 95%O, 5%M	0.21
0.00	90' GP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Double D
133 E. 12th
Hays, Ks 67601

24-13-20 Ellis, Ks

Johnston #1

Job Ticket: 47425

DST#: 1

ATTN: Al Downing

Test Start: 2012.07.23 @ 21:30:41

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

33 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

69000 ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
525.00	MW 95%W, 5%M	3.110
75.00	GW & OCM 10%G, 15%O, 15%W, 60%M	1.052
15.00	FREE OIL 95%O, 5%M	0.210
0.00	90' GIP	0.000

Total Length: 615.00 ft Total Volume: 4.372 bbl

Num Fluid Samples: 0

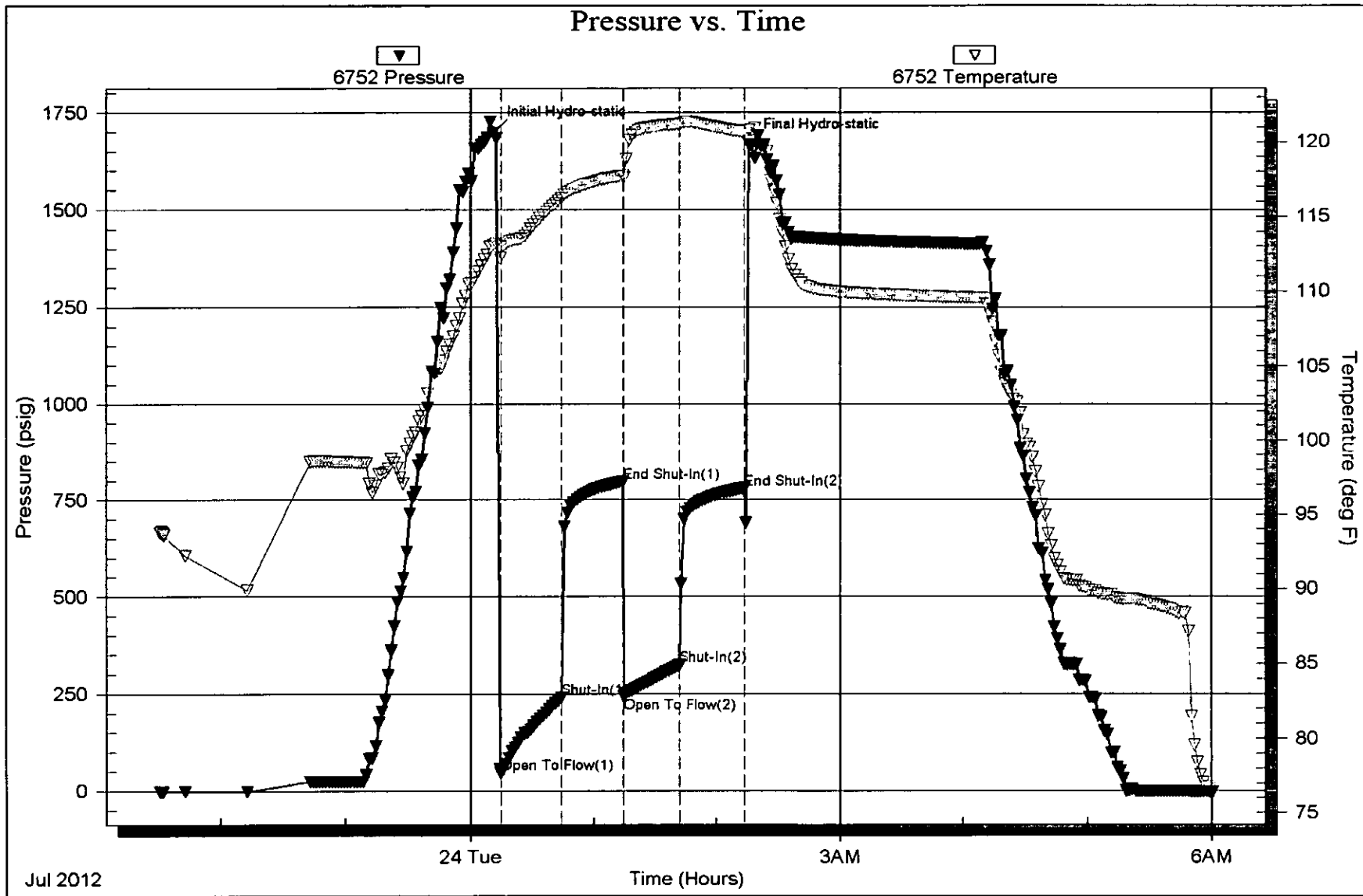
Num Gas Bombs: 0

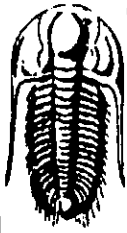
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Double D
133 E. 12th
Hays, Ks 67601
ATTN: Al Downing

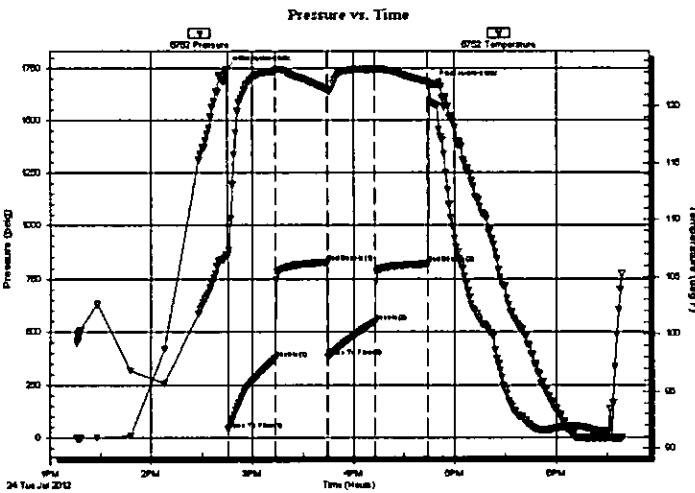
24-13-20 Ellis, Ks
Johnston #1
Job Ticket: 49276 **DST#: 2**
Test Start: 2012.07.24 @ 13:15:57

GENERAL INFORMATION:

Formation: **LKC "E-F"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 14:45:27
Time Test Ended: 18:39:27
Interval: **3506.00 ft (KB) To 3534.00 ft (KB) (TVD)**
Total Depth: **3534.00 ft (KB) (TVD)**
Hole Diameter: **7.88 inches** Hole Condition: **Good**
Test Type: **Conventional Bottom Hole (Reset)**
Tester: **Brian Fairbank**
Unit No: **41**
Reference Elevations: **2118.00 ft (KB)**
2113.00 ft (CF)
KB to GRV/CF: **5.00 ft**

Serial #: 6752 **Inside**
Press@RunDepth: **544.62 psig @ 3511.00 ft (KB)** Capacity: **8000.00 psig**
Start Date: **2012.07.24** End Date: **2012.07.24** Last Calib.: **2012.07.24**
Start Time: **13:15:58** End Time: **18:39:27** Time On Btm: **2012.07.24 @ 14:44:27**
Time Off Btm: **2012.07.24 @ 16:47:27**

TEST COMMENT: IFP - BOB 3 min
ISI - weak sur blow back - died 5 min
FFP - BOB 5 min
FSI - no blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1745.51	106.88	Initial Hydro-static
1	38.81	106.89	Open To Flow (1)
29	373.91	123.10	Shut-In(1)
60	825.42	121.48	End Shut-In(1)
61	381.37	121.31	Open To Flow (2)
89	544.62	123.21	Shut-In(2)
120	818.49	122.15	End Shut-In(2)
123	1672.61	120.17	Final Hydro-static

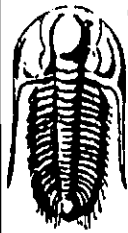
Recovery

Length (ft)	Description	Volume (bbl)
965.00	MW 95%W, 5%M	9.28
130.00	MW 60%W, 40%M	1.82
5.00	SOCMW 5%O, 65%W, 30%M	0.07
0.00	45' GP	0.00

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Double D
133 E. 12th
Hays, Ks 67601
ATTN: Al Downing

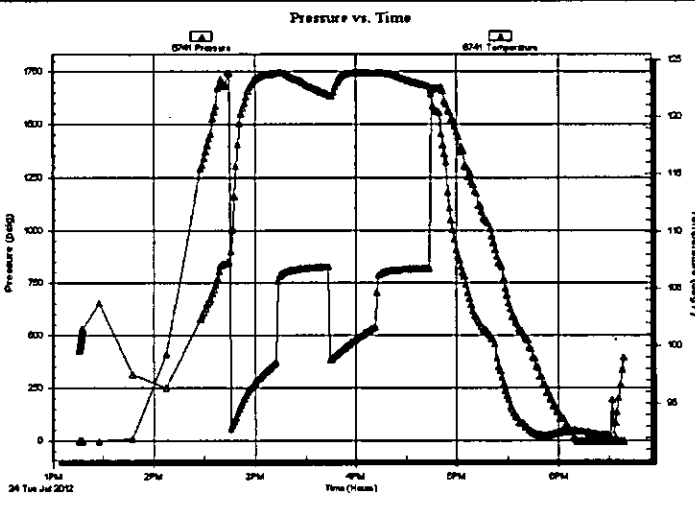
24-13-20 Ellis, Ks
Johnston #1
Job Ticket: 49276 **DST#: 2**
Test Start: 2012.07.24 @ 13:15:57

GENERAL INFORMATION:

Formation: **LKC "E-F"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 14:45:27
Time Test Ended: 18:39:27
Interval: **3506.00 ft (KB) To 3534.00 ft (KB) (TVD)**
Total Depth: **3534.00 ft (KB) (TVD)**
Hole Diameter: **7.88 inches** Hole Condition: **Good**
Test Type: **Conventional Bottom Hole (Reset)**
Tester: **Brian Fairbank**
Unit No: **41**
Reference Elevations: **2118.00 ft (KB)**
2113.00 ft (CF)
KB to GR/CF: **5.00 ft**

Serial #: 6741 **Outside**
Press@RunDepth: psig @ 3511.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2012.07.24 End Date: 2012.07.24 Last Calib.: 2012.07.24
Start Time: 13:15:41 End Time: 18:39:10 Time On Btm:
Time Off Btm:

TEST COMMENT: IFP - BOB 3 min
ISI - weak sur blow back - died 5 min
FFP - BOB 5 min
FSI - no blow back



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
965.00	MW 95%W, 5%M	9.28
130.00	MW 60%W, 40%M	1.82
5.00	SOCMW 5%O, 65%W, 30%M	0.07
0.00	45' GP	0.00

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Double D
133 E. 12th
Hays, Ks 67601

24-13-20 Ellis, Ks

Johnston #1

Job Ticket: 49276

DST#: 2

ATTN: Al Downing

Test Start: 2012.07.24 @ 13:15:57

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 52.00 sec/qt

Water Loss: 8.78 in³

Resistivity: ohm.m

Salinity: 4000.00 ppm

Filter Cake: inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API: deg API

Water Salinity: 88000 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
965.00	MW 95%W, 5%M	9.282
130.00	MW 60%W, 40%M	1.824
5.00	SOCMW 5%O, 65%W, 30%M	0.070
0.00	45' GIP	0.000

Total Length: 1100.00 ft Total Volume: 11.176 bbl

Num Fluid Samples: 0

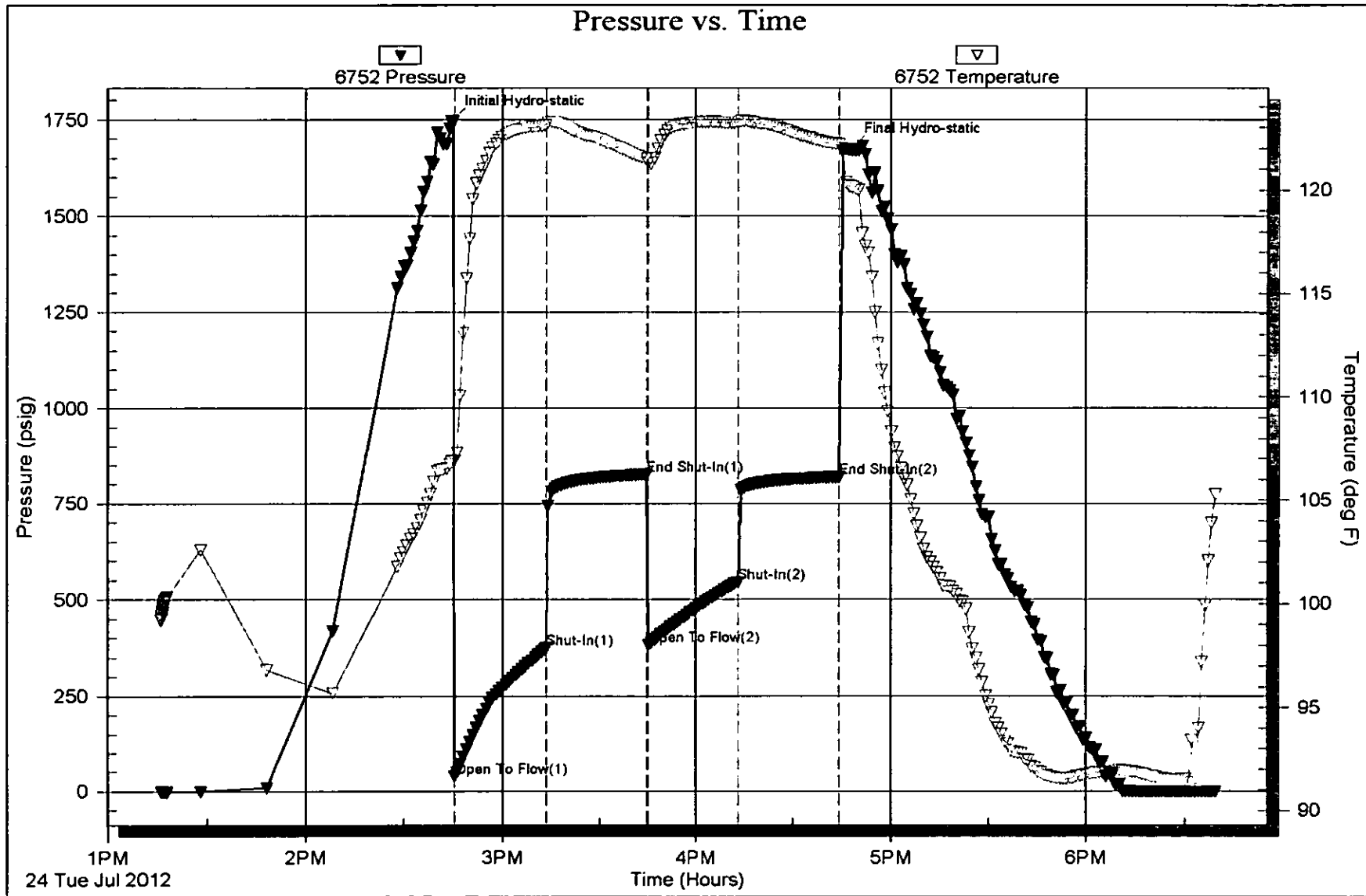
Num Gas Bombs: 0

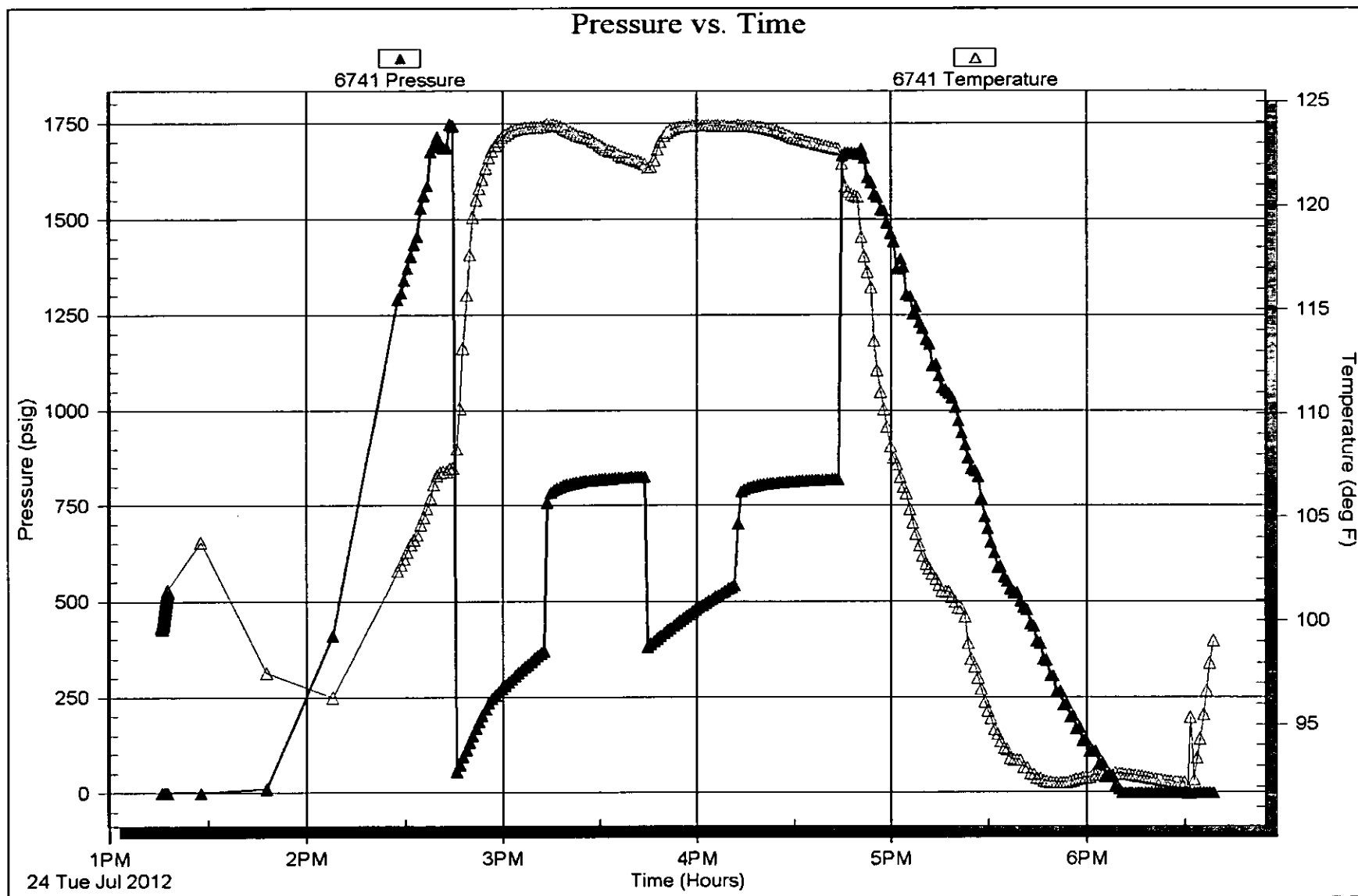
Serial #:

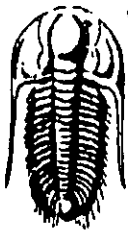
Laboratory Name:

Laboratory Location:

Recovery Comments:







TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Double D
133 E. 12th
Hays, Ks 67601
ATTN: Al Downing

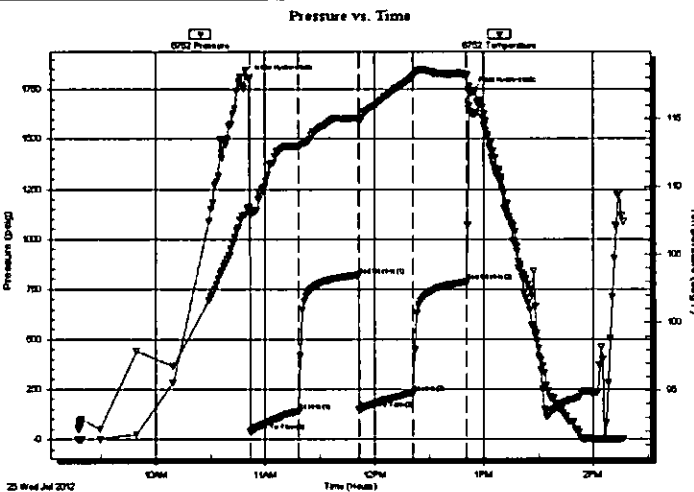
24-13-20 Ellis, Ks
Johnston #1
Job Ticket: 49277 **DST#: 3**
Test Start: 2012.07.25 @ 09:17:21

GENERAL INFORMATION:

Formation: **LKC "H-L"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 10:51:51
Time Test Ended: 14:16:51
Interval: **3562.00 ft (KB) To 3640.00 ft (KB) (TVD)**
Total Depth: 3640.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good
Test Type: Conventional Bottom Hole (Reset)
Tester: Brian Fairbank
Unit No: 41
Reference Elevations: 2118.00 ft (KB)
2113.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 6752 **Inside**
Press@RunDepth: 232.40 psig @ 3568.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2012.07.25 End Date: 2012.07.25 Last Calib.: 2012.07.25
Start Time: 09:17:22 End Time: 14:16:51 Time On Btm: 2012.07.25 @ 10:50:51
Time Off Btm: 2012.07.25 @ 12:53:51

TEST COMMENT: IFP - BOB 19 min
ISI - no blow back
FFP - BOB 25 min
FSI - no blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1806.28	108.45	Initial Hydro-static
1	37.59	108.17	Open To Flow (1)
28	140.58	112.89	Shut-In(1)
60	817.94	115.00	End Shut-In(1)
61	147.34	114.83	Open To Flow (2)
91	232.40	118.13	Shut-In(2)
120	784.87	118.15	End Shut-In(2)
123	1741.14	115.36	Final Hydro-static

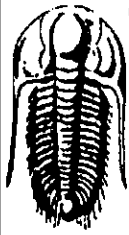
Recovery

Length (ft)	Description	Volume (bbl)
375.00	SGOCMW 30%G, 5%O, 35%W, 30%M	1.84
90.00	VSGOCM 17%G, 3%O, 80%M	0.44

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Double D
133 E. 12th
Hays, Ks 67601

24-13-20 Ellis, Ks

Johnston #1

Job Ticket: 49277

DST#: 3

ATTN: Al Downing

Test Start: 2012.07.25 @ 09:17:21

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 50.00 sec/qt
Water Loss: 11.19 in³
Resistivity: ohm.m
Salinity: 9000.00 ppm
Filter Cake: inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psig

Oil API: deg API
Water Salinity: 21000 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
375.00	SGOCMW 30%G, 5%O, 35%W, 30%M	1.844
90.00	VSGOCM 17%G, 3%O, 80%M	0.443

Total Length: 465.00 ft Total Volume: 2.287 bbl

Num Fluid Samples: 0

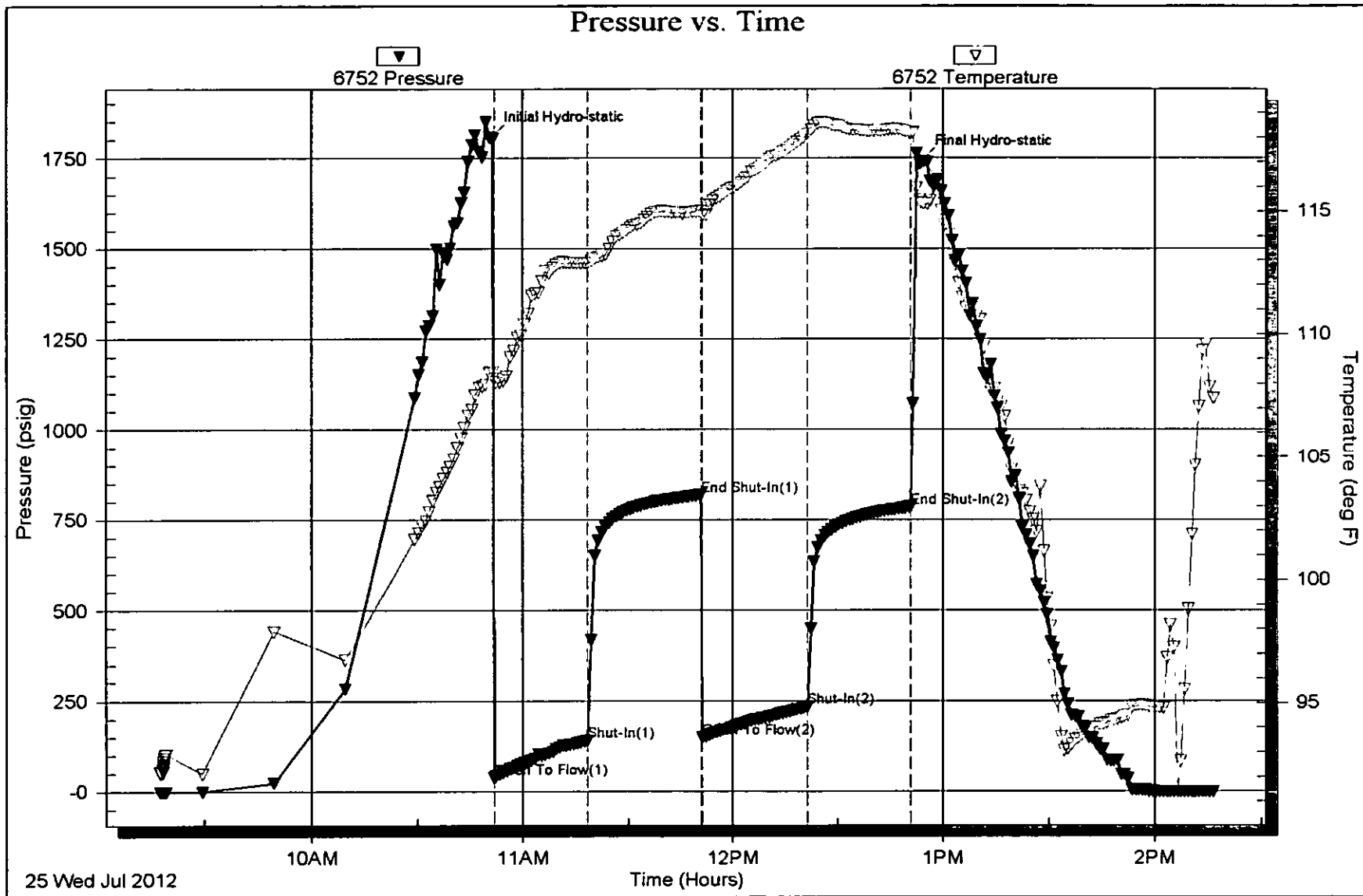
Num Gas Bombs: 0

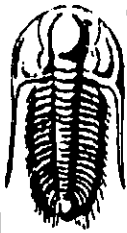
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Double D
133 E 12th
Hays, Ks 67601

ATTN: Al Downing

24-13-20 Ellis, Ks

Johnston #1

Job Ticket: 49278

DST#: 4

Test Start: 2012.07.25 @ 22:57:18

GENERAL INFORMATION:

Formation: **LKC "K"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 01:11:18

Time Test Ended: 04:42:18

Test Type: Conventional Bottom Hole (Reset)

Tester: Brian Fairbank

Unit No: 41

Interval: 3633.00 ft (KB) To 3663.00 ft (KB) (TVD)

Total Depth: 3663.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2118.00 ft (KB)

2113.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6752

Inside

Press@RunDepth: 166.67 psig @ 3640.00 ft (KB)

Start Date: 2012.07.25

End Date:

2012.07.26

Start Time: 22:57:19

End Time:

04:42:18

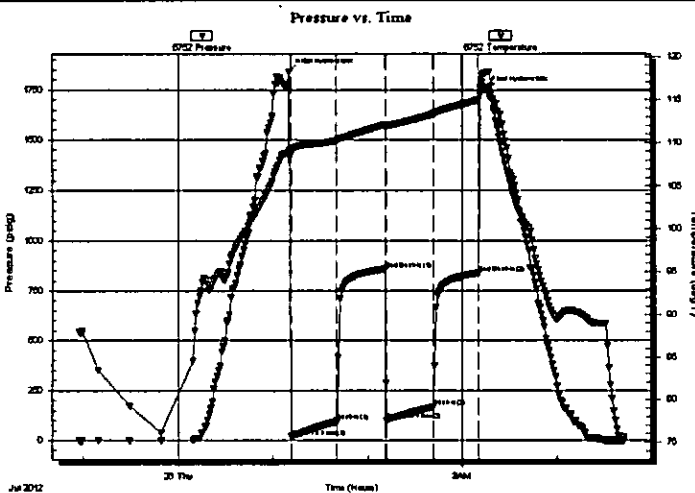
Capacity: 8000.00 psig

Last Calib.: 2012.07.26

Time On Btm: 2012.07.26 @ 01:10:18

Time Off Btm: 2012.07.26 @ 03:14:18

TEST COMMENT: IFF - BOB 25 min
ISI - sur blow back - died 6 min
FFP - BOB 27 min
FSI - 1/4" blow back - died 21 min



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1839.80	109.05	Initial Hydro-static
1	16.55	108.59	Open To Flow (1)
30	94.40	110.18	Shut-in(1)
61	857.07	112.09	End Shut-in(1)
62	101.80	111.99	Open To Flow (2)
91	166.67	113.26	Shut-in(2)
120	838.02	114.92	End Shut-in(2)
124	1750.40	118.06	Final Hydro-static

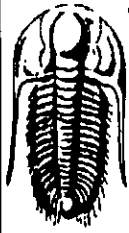
Recovery

Length (ft)	Description	Volume (bbl)
335.00	MW 95%W, 5%M	1.65
5.00	FREE OIL 95%O, 5%M	0.02
0.00	60' GIP	0.00

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Double D
133 E. 12th
Hays, Ks 67601

24-13-20 Ellis, Ks

Johnston #1

Job Ticket: 49278

DST#: 4

ATTN: Al Downing

Test Start: 2012.07.25 @ 22:57:18

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 10.00 lb/gal
Viscosity: 47.00 sec/qt
Water Loss: 10.39 in³
Resistivity: ohm.m
Salinity: 8000.00 ppm
Filter Cake: inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psig

Oil API: 38 deg API
Water Salinity: 54000 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
335.00	MW 95%W, 5%M	1.647
5.00	FREE OIL 95%O, 5%M	0.025
0.00	60' GIP	0.000

Total Length: 340.00 ft Total Volume: 1.672 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

