

KANSAS CORPORATION COMMISSION 1086103
OIL & GAS CONSERVATION DIVISION
WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

Form ACO-1
June 2009
Form Must Be Typed
Form must be Signed
All blanks must be Filled

OPERATOR: License # 8247
Name: Hembree, Robert F
Address 1: PO BOX 542
Address 2: _____
City: NESS CITY State: KS Zip: 67560 + 0542
Contact Person: Fred J. Hembree
Phone: (620) 802-7960
CONTRACTOR: License # 5123
Name: Pickrell Drilling Company, Inc.
Wellsite Geologist: Jim Musgrove
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 #: _____

5/04/2012	5/15/2012	5/15/2012
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-135-25367-00-00

Spot Description: _____
E2 E2 SW SW Sec. 34 Twp. 18 S. R. 24 ☐ East ☒ West
660 Feet from ☐ North / ☒ South Line of Section
1174 Feet from ☐ East / ☒ West Line of Section

Footages Calculated from Nearest Outside Section Corner:

☐ NE ☐ NW ☐ SE ☒ SW

County: Ness

Lease Name: Schwartzkopf 'K' Well #: 1

Field Name: McDonald Northeast

Producing Formation: Mississippi

Elevation: Ground: 2313 Kelly Bushing: 2320

Total Depth: 4343 Plug Back Total Depth: 0

Amount of Surface Pipe Set and Cemented at: 225 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: 25000 ppm Fluid volume: 960 bbls

Dewatering method used: Hauled to Disposal

Location of fluid disposal if hauled offsite:

Operator Name: Robert F. Hembree

Lease Name: Parker License #: 8247

Quarter NW Sec. 25 Twp. 18 S. R. 24 ☐ East ☒ West

County: Ness Permit #: D30634

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: Deanne Gerron Date: 07/02/2012



1086103

Operator Name: Hembree, Robert F Lease Name: Schwartzkopf 'K' Well #: 1
 Sec. 34 Twp. 18 S. R. 24 ☐ East ☒ West County: Ness

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 ☒ Yes ☐ No
 (Attach Additional Sheets)

Samples Sent to Geological Survey ☒ Yes ☐ No

Cores Taken ☐ Yes ☒ No

Electric Log Run ☐ Yes ☒ No

Electric Log Submitted Electronically ☐ Yes ☐ No
 (If no, Submit Copy)

List All E. Logs Run:

☐ Log Formation (Top), Depth and Datum ☒ Sample

Name Top Datum
 Attached Attached Attached

CASING RECORD ☒ New ☐ Used

Report all strings set-conductor, surface, intermediate, production, etc.

Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
Surface	12.25	8.625	23	225	Class A Commor	150	2%gel, 3% CC

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 (Amount and Kind of Material Used)	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

DISPOSITION OF GAS: ☐ Vented ☐ Sold ☐ Used on Lease (If vented, Submit ACO-18.)		METHOD OF COMPLETION: ☐ Open Hole ☐ Perf. ☐ Dually Comp. (Submit ACO-5) ☐ Commingled (Submit ACO-4) ☐ Other (Specify) _____		PRODUCTION INTERVAL: _____ _____
--	--	--	--	--

Form	ACO1 - Well Completion
Operator	Hembree, Robert F
Well Name	Schwartzkopf 'K' 1
Doc ID	1086103

Tops

T/Anhydrite	1585	+735
B/Anhydrite	1610	+710
Topeka	3377	-1057
Heebner	3699	-1379
Toronto	3720	-1400
Lansing	3741	-1421
B/KC	4052	-1732
Marmaton	4082	-1762
Pawnee	4159	-1839
Ft. Scott	4236	-1916
Mississippian	4331	-2011
RTD	4343	-2023



PO Box 93999
Southlake, TX 76092

Voice: (817) 546-7282
Fax: (817) 246-3361

INVOICE

Invoice Number: 131098
Invoice Date: May 4, 2012
Page: 1

**Bill To:**

Robert F. Hembree
P O Box 542
Ness City, KS 67560

Customer ID	Well Name/# or Customer P.O.	Payment Terms	
Hem	Swartzkopf K-1	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-01	Great Bend	May 4, 2012	6/3/12

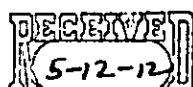
Quantity	Item	Description	Unit Price	Amount
150.00	MAT	Class A Common	16.25	2,437.50
3.00	MAT	Gel	21.25	63.75
5.00	MAT	Chloride	58.20	291.00
162.90	SER	Handling	2.10	342.09
37.00	SER	Ton Miles	2.35	86.95
1.00	SER	Surface	1,125.00	1,125.00
5.00	SER	Heavy Vehicle Mileage	7.00	35.00
5.00	SER	Light Vehicle Mileage	4.00	20.00
1.00	EQUIP OPER	Greg Redetzke		
1.00	EQUIP OPER	Kevin Eddy		
1.00	EQUIP OPER	Joel Monahan		

ALL PRICES ARE NET, PAYABLE
30 DAYS FOLLOWING DATE OF
INVOICE. 1 1/2% CHARGED
THEREAFTER. IF ACCOUNT IS
CURRENT, TAKE DISCOUNT OF

\$ 880.25

ONLY IF PAID ON OR BEFORE
May 29, 2012

Subtotal	4,401.29
Sales Tax	175.91
Total Invoice Amount	4,577.20
Payment/Credit Applied	
TOTAL	4,577.20



< 880.25 >
3696.95

ALLIED OIL & GAS SERVICES, LLC 053525

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

SERVICE POINT: Greene

DATE <u>5-4-12</u>	SEC <u>35</u>	TWP <u>7E</u>	RANGE <u>24</u>	CALLED OUT	ON LOCATION	JOB START <u>8:20 AM</u>	JOB FINISH <u>9:00 AM</u>
LEASE <u>SW 1/4 Sec 35 T7E R24</u>	WELL # <u>K-1</u>	LOCATION <u>E 1/2 Sec 35 T7E R24</u>			COUNTY <u>Neosho</u>	STATE <u>KS</u>	
OLD OR NEW (Circle one) <u>NEW</u>							

CONTRACTOR Pickrell Co
TYPE OF JOB 2 1/2" Plug
HOLE SIZE 1 3/4" T.D. 225
CASING SIZE 8 3/8" DEPTH
TUBING SIZE DEPTH
DRILL PIPE DEPTH
TOOL DEPTH
PRES. MAX MINIMUM
MEAS. LINE SHOE JOINT
CEMENT LEFT IN CSG. 15 ft
PERFS.
DISPLACEMENT 17.74

OWNER Robert Hembree
CEMENT
AMOUNT ORDERED 150 sacks
(1955 A 30000 20000)
COMMON 150 @ 16.25 2,437.50
POZMIX @
GEL 3 @ 21.25 63.75
CHLORIDE 5 @ 58.20 291.00
ASC @
HANDLING 162.9 @ 2.10 342.09
MILEAGE 7.4 x 5 @ 2.35 17.425
TOTAL 3,221.29

EQUIPMENT
PUMP TRUCK CEMENTER Gregg
326 HELPER Hein E
BULK TRUCK
318 DRIVER Steel. M
BULK TRUCK
DRIVER

REMARKS:
Pipe on bottom, break circ
at 110' mark, Hook up
cementing pipe, mix 150 gk
CEMENT 150 SACKS @ 4.00/100
Both 60250 1 1/2"
PLUG 14 - 10000 20000
10000 20000

CHARGE TO: Robert F Hembree
STREET PO Box 5412
CITY Neosho STATE KS ZIP 67560 0542

SERVICE
DEPTH OF JOB 225
PUMP TRUCK CHARGE 1125.00
EXTRA FOOTAGE @
MILEAGE 4000 5 @ 7.00 35.00
MANIFOLD @
4000 5 @ 4.00 20.00
TOTAL 1180.00

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 Mike Kern
SIGNATURE Mike Kern

PLUG & FLOAT EQUIPMENT
TOTAL
SALES TAX (If Any)
TOTAL CHARGES 4,401.29
20% 880.25
DISCOUNT 3521.04 IF PAID IN 30 DAYS



PO Box 93999
Southlake, TX 76092

Voice: (817) 546-7282
Fax: (817) 246-3361

INVOICE

Invoice Number: 131179

Invoice Date: May 15, 2012

Page: 1



Bill To:
Robert F. Hembree P O Box 542 Ness City, KS 67560

Customer ID	Well Name/# or Customer P.O.	Payment Terms	
Hem	Schwartzkopf #1 "K"	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-03	Great Bend	May 15, 2012	6/14/12

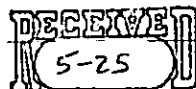
Quantity	Item	Description	Unit Price	Amount
144.00	MAT	Class A Common	16.25	2,340.00
96.00	MAT	Pozmix	8.50	816.00
8.00	MAT	Gel	21.25	170.00
60.00	MAT	FloSeal	2.70	162.00
257.76	SER	Handling	2.10	541.30
5.00	SER	Ton Miles	25.29	126.43
1.00	SER	Rotary Plug	1,250.00	1,250.00
5.00	SER	Heavy Vehicle Mileage	7.00	35.00
5.00	SER	Light Vehicle Mileage	4.00	20.00
1.00	EQUIP OPER	Greg Redetzke		
1.00	EQUIP OPER	Kevin Eddy		
1.00	EQUIP OPER	Joel Monahan		

ALL PRICES ARE NET, PAYABLE
30 DAYS FOLLOWING DATE OF
INVOICE. 1 1/2% CHARGED
THEREAFTER. IF ACCOUNT IS
CURRENT, TAKE DISCOUNT OF

\$ 1092.14

ONLY IF PAID ON OR BEFORE

Jun 9, 2012



Subtotal	5,460.73
Sales Tax	344.03
Total Invoice Amount	5,804.76
Payment/Credit Applied	
TOTAL	5,804.76

- 1092.14
4,712.62

ALLIED OIL & GAS SERVICES, LLC 053535

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

SERVICE POINT:
Front Bon & Co

DATE <u>5-15-12</u>	SEC <u>35</u>	TWP <u>18</u>	RANGE <u>24</u>	CALLED OUT	ON LOCATION	JOB START <u>8:00 AM</u>	JOB FINISH <u>4:00 PM</u>
LEASE <u>Schwartzkopf</u>	WELL # <u>1</u>	LOCATION <u>Ness City, KS 21 mi. S</u>			COUNTY <u>Ness</u>	STATE <u>KS</u>	
OLD OR NEW (Circle one) <u>NEW</u>		<u>3/4 south east into</u>					

CONTRACTOR <u>Petroleum #10</u>	OWNER <u>Robert Hemmire</u>
TYPE OF JOB <u>Rotary Plug</u>	
HOLE SIZE <u>7 7/8</u>	T.D. <u>4313</u>
CASING SIZE	DEPTH
TUBING SIZE	DEPTH
DRILL PIPE	DEPTH
TOOL	DEPTH
PRES. MAX	MINIMUM
MEAS. LINE	SHOE JOINT
CEMENT LEFT IN CSG.	
PERFS.	
DISPLACEMENT	

EQUIPMENT

PUMP TRUCK	CEMENTER <u>Graig R</u>
# <u>366</u>	HELPER <u>Kevin E</u>
BULK TRUCK	
# <u>485-112</u>	DRIVER <u>Jason</u>
BULK TRUCK	
#	DRIVER

REMARKS:

1st plug 50 lbs @ 1590 ft
2nd plug 50 lbs @ 810 ft
3rd plug 50 lbs @ 450 ft
4th plug 40 lbs @ 240 ft
5th plug 20 lbs @ 60 ft
Mix 30 lbs @ 100 ft

CHARGE TO: Robert Hemmire
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 Mike Kern
SIGNATURE Mike Kern

CEMENT	
AMOUNT ORDERED <u>240 lbs 60/40</u>	
<u>4% oil 1/4 floccul</u>	

COMMON	<u>144</u>	@ <u>16.25</u>	<u>2,340.00</u>
POZMIX	<u>96</u>	@ <u>8.50</u>	<u>816.00</u>
GEL	<u>8</u>	@ <u>21.25</u>	<u>170.00</u>
CHLORIDE		@	
ASC		@	
<u>fla seal</u>	<u>60</u>	@ <u>2.70</u>	<u>162.00</u>
		@	
		@	
		@	
		@	
		@	
HANDLING	<u>257.76</u>	@ <u>2.10</u>	<u>541.29</u>
MILEAGE	<u>10.76 x 5</u>	@ <u>2.35</u>	<u>126.73</u>
			TOTAL <u>4,155.72</u>

SERVICE

DEPTH OF JOB	<u>1590</u>
PUMP TRUCK CHARGE	<u>1250.00</u>
EXTRA FOOTAGE	@
MILEAGE	<u>Hum 5</u> @ <u>7.00</u> <u>35.00</u>
MANIFOLD	@
<u>hum 5</u>	@ <u>4.00</u> <u>20.00</u>
	@
TOTAL <u>1305.00</u>	

PLUG & FLOAT EQUIPMENT

	@	
	@	
	@	
	@	
	@	
TOTAL _____		

SALES TAX (If Any) _____
TOTAL CHARGES 5,460.72
26% 1,092.14
DISCOUNT _____ IF PAID IN 30 DAYS
4,368.58



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

Robert F Hembree

35-18s 24 Ness KS

#1 Schwartzkopf K

Job Ticket: 47029

DST#: 1

ATTN: Fred Hembree

Test Start: 2012.05.13 @ 01:55:57

GENERAL INFORMATION:

Formation: Fort Scott

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:08:57

Time Test Ended: 08:59:57

Test Type: Conventional Bottom Hole (Initial)

Tester: Paul Simpson

Unit No: 64

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

Total Depth: 4261.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2320.00 ft (KB)

2313.00 ft (CF)

KB to GR/CF: 7.00 ft

Serial #: 8788

Press@RunDepth: 32.47 psig @ ft (KB)

Start Date: 2012.05.13

End Date:

2012.05.13

Capacity: 8000.00 psig

Last Calib.: 1899.12.30

Start Time: 01:56:02

End Time:

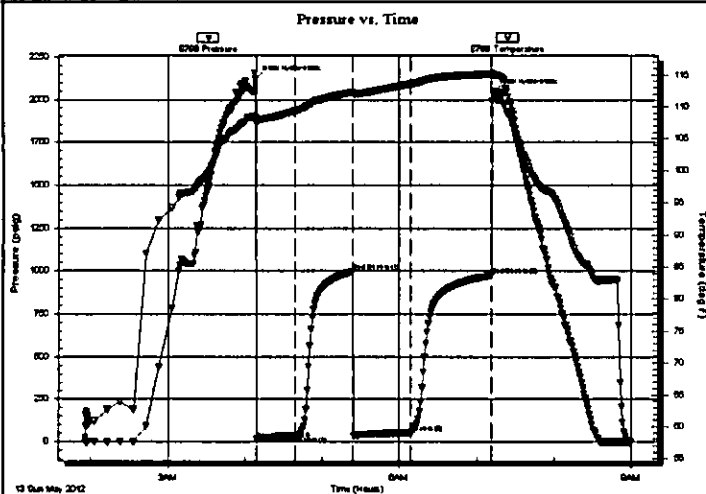
08:59:56

Time On Btm: 2012.05.13 @ 04:08:27

Time Off Btm: 2012.05.13 @ 07:12:57

TEST COMMENT: IF- weak blow built to 2"

FF- weak blow built to 5" no blow on either shutin



PRESSURE SUMMARY

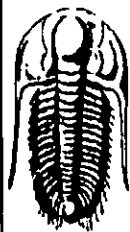
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2120.46	108.37	Initial Hydro-static
1	14.92	107.40	Open To Flow (1)
31	32.47	109.29	Shut-In(1)
76	997.59	112.24	End Shut-In(1)
121	52.96	113.53	Shut-In(2)
183	975.43	115.09	End Shut-In(2)
185	2044.76	115.07	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	watery mud 30% w 70% mud	0.28
60.00	oil specked mud w ith clean oil on top	0.84
0.00	Rw .135 @ 65 = 60000	0.00

Gas Rates

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Robert F Hembree

35-18s 24 Ness KS

#1 Schwartzkopf K

Job Ticket: 47029

DST#: 1

ATTN: Fred Hembree

Test Start: 2012.05.13 @ 01:55:57

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: lb/gal

Cushion Length:

ft

Water Salinity:

60000 ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbl

Water Loss: in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	watery mud 30% w 70% mud	0.281
60.00	oil specked mud with clean oil on top	0.842
0.00	Rw .135 @ 65 = 60000	0.000

Total Length:

80.00 ft

Total Volume:

1.123 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

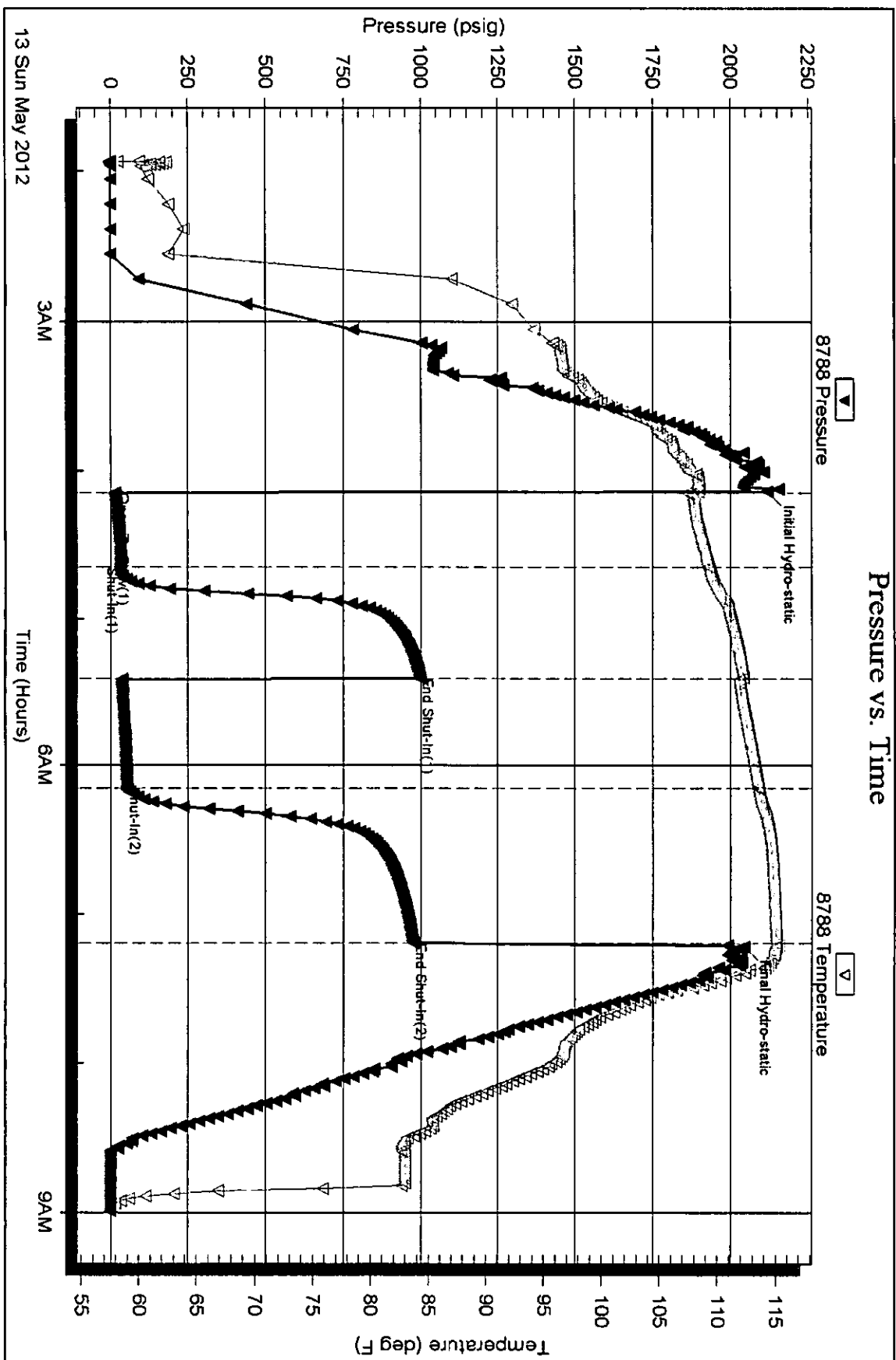
Recovery Comments: clean water in hyd tool

Serial #: 8788

Robert F Hemphree

#1 Schw artzkoph K

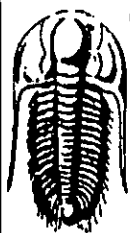
DST Test Number: 1



Triad Testing, Inc

Ref. No: 47029

Printed: 2012.05.13 @ 10:04:49



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Robert F Hembree

Box 542
Ness City KS

ATTN: Fred Hembree

35-18s 24 Ness KS

#1 Schwartzkopf K

Job Ticket: 47030

DST#: 2

Test Start: 2012.05.13 @ 23:55:58

GENERAL INFORMATION:

Formation: Miss

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:01:53

Time Test Ended: 05:54:52

Interval: 4302.00 ft (KB) To 4338.00 ft (KB) (TVD)

Total Depth: 4338.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Test Type: Conventional Bottom Hole (Reset)

Tester: Paul Simpson

Unit No: 64

Reference Elevations: 2320.00 ft (KB)

2313.00 ft (CF)

KB to GR/CF: 7.00 ft

Serial #: 8788

Inside

Press@RunDepth: 15.13 psig @ 4303.00 ft (KB)

Start Date: 2012.05.13

End Date:

2012.05.14

Capacity: 8000.00 psig

Last Calib.: 2012.01.04

Start Time: 23:55:58

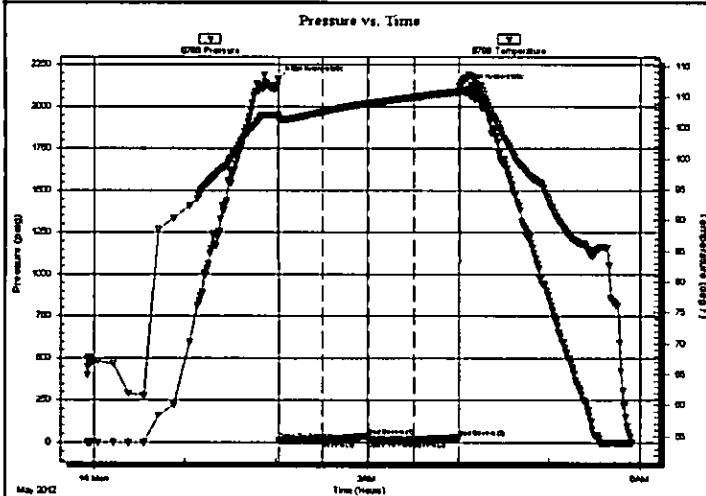
End Time:

05:54:52

Time On Btm: 2012.05.14 @ 02:01:23

Time Off Btm: 2012.05.14 @ 04:01:23

TEST COMMENT: IF weak blow built to 3/4"
FF- no blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2162.01	107.13	Initial Hydro-static
1	13.04	106.26	Open To Flow (1)
29	15.10	107.55	Shut-In(1)
59	36.47	108.94	End Shut-In(1)
60	14.89	108.94	Open To Flow (2)
90	15.13	109.92	Shut-In(2)
120	27.72	110.85	End Shut-In(2)
120	2115.73	111.82	Final Hydro-static

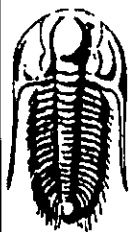
Recovery

Length (ft)	Description	Volume (bbl)
6.00	oil specked mud	0.08
4.00	clean oil	0.06

* Recovery from multiple tests

Gas Rates

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Robert F Hembree

35-18s 24 Ness KS

Box 542
Ness City KS

#1 Schwartzkoph K

Job Ticket: 47030

DST#: 2

ATTN: Fred Hembree

Test Start: 2012.05.13 @ 23:55:58

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: 54.00 sec/qt

Cushion Volume:

bbl

Water Loss: 10.16 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
6.00	oil specked mud	0.084
4.00	clean oil	0.056

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 #: 8788

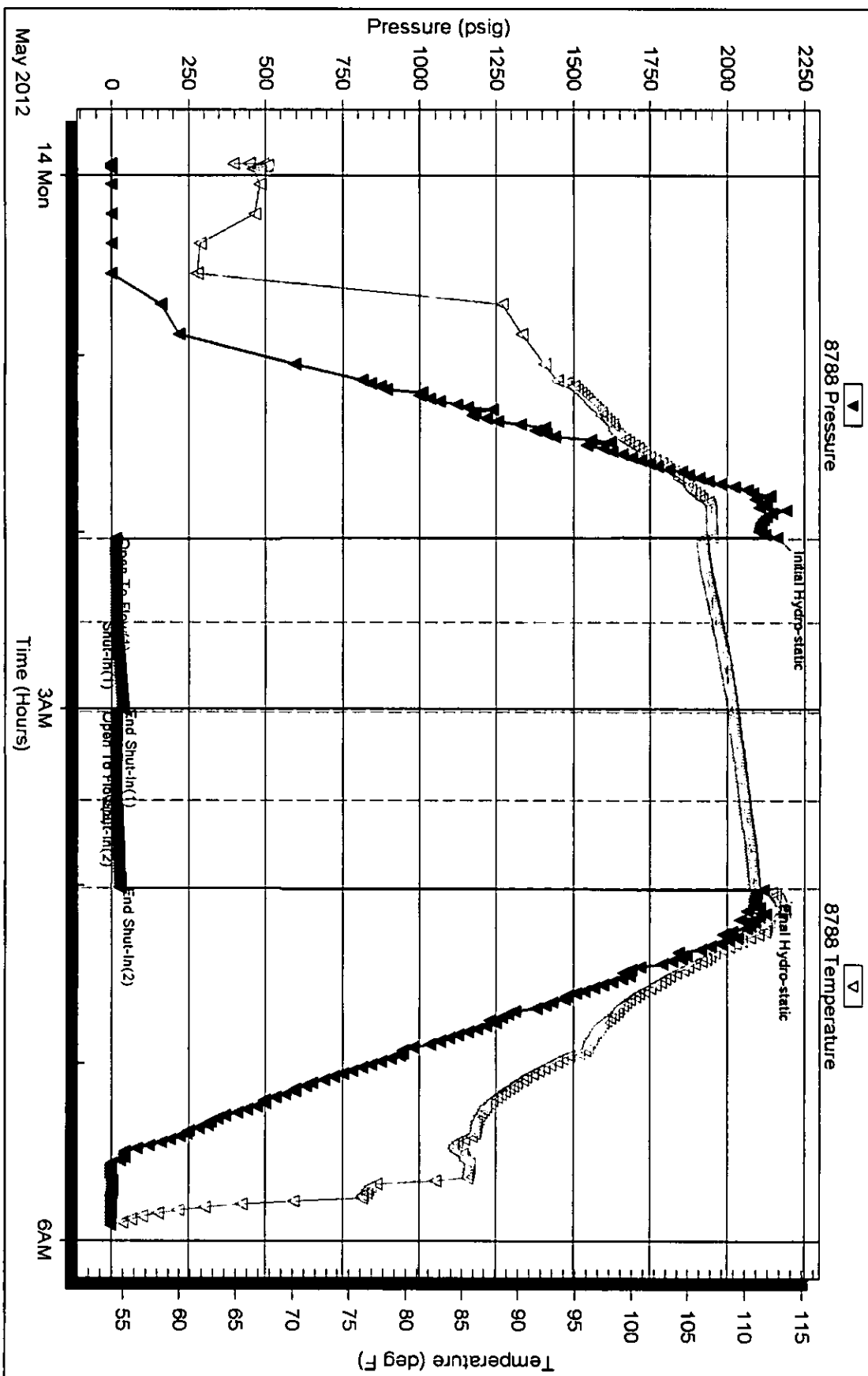
Inside

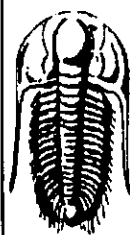
Robert F Hembree

#1 Schwartzkopf K

DST Test Number: 2

Pressure vs. Time





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Robert F Hembree

35-18s 24 Ness KS

Box 542
Ness City KS

#1 Schwartzkopf K

Job Ticket: 47031

DST#: 3

ATTN: Fred Hembree

Test Start: 2012.05.14 @ 14:39:54

GENERAL INFORMATION:

Formation: **Miss**

Deviated: **No** Whipstock: **ft (KB)**

Time Tool Opened: 16:42:24

Time Test Ended: 21:01:54

Test Type: **Conventional Bottom Hole (Reset)**

Tester: **Paul Simpson**

Unit No: **64**

Interval: **4300.00 ft (KB) To 4343.00 ft (KB) (TVD)**

Total Depth: **4343.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: **Fair**

Reference Elevations: **2320.00 ft (KB)**

2313.00 ft (CF)

KB to GR/CF: **7.00 ft**

Serial #: **8788** Inside

Press@RunDepth: **16.51 psig @ 4304.00 ft (KB)**

Start Date: **2012.05.14**

End Date:

2012.05.14

Capacity: **8000.00 psig**

Last Calib.: **2012.05.14**

Start Time: **14:39:59**

End Time:

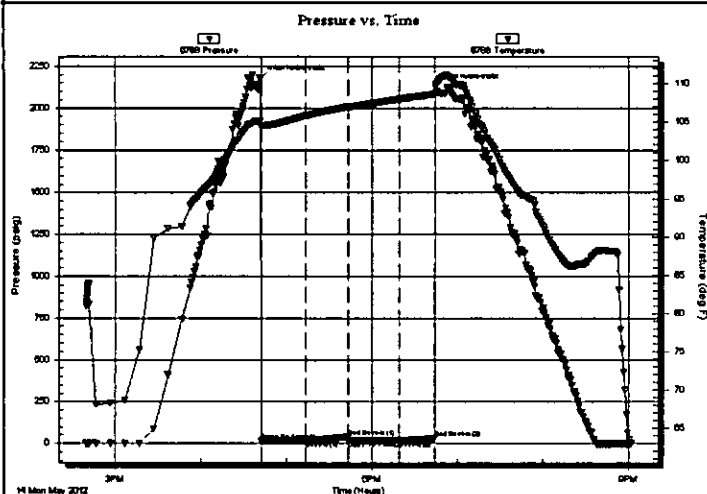
21:01:53

Time On Btm: **2012.05.14 @ 16:41:54**

Time Off Btm: **2012.05.14 @ 18:44:24**

TEST COMMENT: IF- weak blow built to 3/4"

FF- weak 1/4" blow died in 20 minutes



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2176.15	105.10	Initial Hydro-static
1	14.15	104.25	Open To Flow (1)
32	16.07	105.77	Shut-In(1)
61	37.79	106.94	End Shut-In(1)
62	16.95	106.94	Open To Flow (2)
97	16.51	107.95	Shut-In(2)
122	28.30	108.62	End Shut-In(2)
123	2125.57	109.88	Final Hydro-static

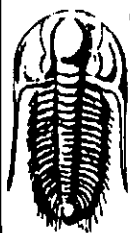
Recovery

Length (ft)	Description	Volume (bbl)
11.00	oil specked mud	0.15
1.00	clean oil	0.01

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Robert F Hembree

35-18s 24 Ness KS

Box 542
Ness City KS

#1 Schwartzkoph K

Job Ticket: 47031

DST#: 3

ATTN: Fred Hembree

Test Start: 2012.05.14 @ 14:39:54

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbl

Water Loss: in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
11.00	oil specked mud	0.154
1.00	clean oil	0.014

Total Length: 12.00 ft

Total Volume: 0.168 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8788

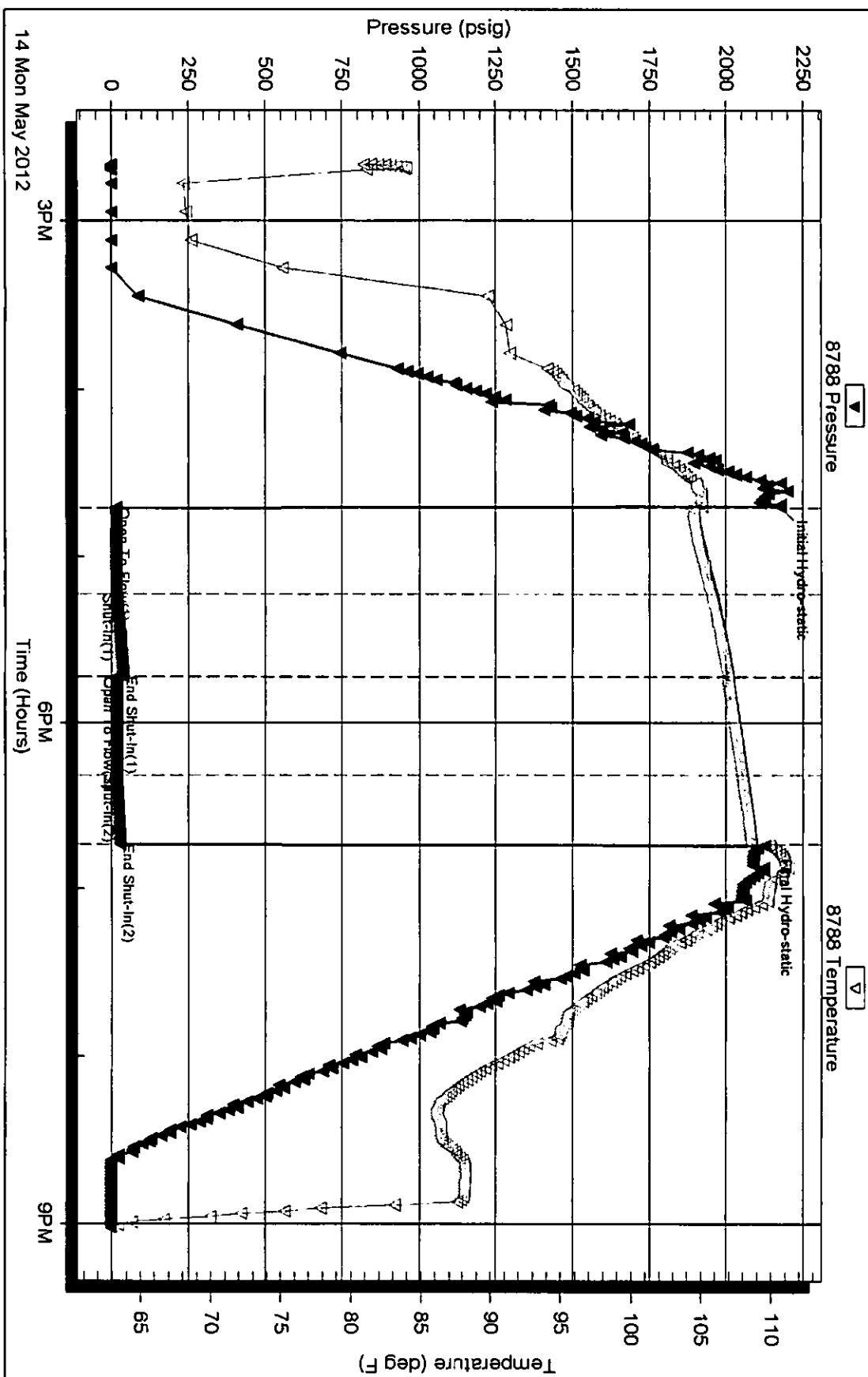
Inside

Robert F Herbrece

#1 Schw artzkoph K

DST Test Number: 3

Pressure vs. Time



Triadco Testing, Inc

Ref. No: 47031

Printed: 2012.05.15 @ 08:03:37

Handwritten text on a lined page, possibly a ledger or notebook. The text is written in cursive and appears to be a list or record of items, possibly related to a business or inventory. The page is numbered 10 in the top right corner.

10

Handwritten text on a lined page, possibly a ledger or notebook. The text is written in cursive and appears to be a list or record of items, possibly related to a business or inventory. The page is numbered 10 in the top right corner.