



KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1087654

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 Date Reached TD Completion Date or
Recompletion Date 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: _____



1087654

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 ☐ Yes ☐ No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey ☐ Yes ☐ No Cores Taken ☐ Yes ☐ No Electric Log Run ☐ Yes ☐ No Electric Log Submitted Electronically ☐ Yes ☐ No <i>(If no, Submit Copy)</i> List All E. Logs Run:	☐ Log Formation (Top), Depth and Datum ☐ Sample Name Top Datum
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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

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 <i>(Explain)</i> _____		
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

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

225 N. Market, Suite 300

Wichita, Kansas 67202

(316) 263-2243

GEOLOGICAL REPORT

KRILEY #A - 3

800' FNL, 400' FWL of

SECTION 29 - 7S - 17W

ROOKS COUNTY, KANSAS

Commenced: 6-11-12

Elevations: 1777' GR, 1782' KB

Completed: 6-19-12

Surface Pipe: 80' Conductor

8-5/8" @ 1200' KB

Contractor: Mallard J.V.

Production

Pipe: none

One foot drilling time was kept from 1160 to 1240' KB and from 2800' to RTD. Ten foot drilling samples (wet & dry) were kept from 2900' to rotary total depth.

Following are sample tops, descriptions of zones of interest (including all shows of oil & gas), and the results of all drill stem tests.

<u>ANHYDRITE</u>	<u>1195</u>	<u>(+587)</u>
<u>BASE ANHYDRITE</u>	<u>1232</u>	<u>(+550)</u>
<u>HEEBNER</u>	<u>2918</u>	<u>(-1136)</u>
<u>LANSING</u>	<u>2962</u>	<u>(-1180)</u>

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Kriley #A - 3

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Lansing (cont.)

3058-66' KB Cream, finely crystalline, slightly oolitic, limestone. Fair to good show of free oil in poor intercrystalline porosity, good odor, fair stain, and a good cut.

3136-40' KB Cream, finely crystalline, dense, limestone. Weak to fair show of free oil in poor intercrystalline porosity, no odor, fair stain, fair cut.

DRILL STEM TEST #1 3054 to 3144' KB 90' Anchor

Blow: Slow build to 3". 2nd --- weak build to 1½"

Times: Open 45, Closed 45, Open 45, Closed 45.

Recovered: 20' Heavy Oil Cut Mud
240' Mud

Pressures: IH 1486# IF 46 - 129# ISIP 401#
FH 1443# FF 133 - 159# FSIP 356#

3146-52' KB Cream, finely crystalline, dense, limestone. Fair show of free oil in poor intercrystalline porosity, no odor, weak stain, and a fair cut.

3182-90' KB White to cream, very finely crystalline limestone. Slight shows of free oil in very poor intercrystalline porosity, no odor, slight stain, and a slight cut.

ARBUCKLE 3252 (-1470)

3252-60' KB White to cream, very finely crystalline, dense, dolomitic - limestone. Slight show of free oil in very poor intercrystalline porosity, no odor, slight stain, and a weak cut.

3261-70' KB Brown, fine crystalline, dense, dolomite. Slight to weak show of free oil in very poor intercrystalline porosity, no odor, fair stain, and a weak cut.

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Kriley #A - 3

Page 3

Arbuckle (cont.)

3271-75' KB White to tan, finely crystalline, dense, dolomite.
Fair show of free oil in poor intercrystalline
porosity, weak odor, fair stain, and a weak cut.

DRILL STEM TEST #2 3252 to 3275' KB 23' Anchor

Blow: surface blow - died in 4 min.

Times: Open 30, Closed 30, Open 0, Closed 0.

Recovered: 3' Oil Cut Mud

Pressures: IH 1594# IF 14 - 17# ISIP 59#
FH 1537# FF -- FSIP --

3276-90' KB White to tan, fine to medium crystalline, dolomite.
Good to great show of free oil in fair inter-
crystalline porosity, fair odor, great stain,
and a great cut.

DRILL STEM TEST #3 3260 to 3290' KB 30' Anchor

Misrun -- Packer Failure.

DRILL STEM TEST #4 3252 to 3290' KB 38' Anchor

Blow: surface blow - died in 3 min.

Times: Open 30, Closed 30, Open 0, Closed 0.

Recovered: 3' Oil Cut Mud

Pressures: IH 1647# IF 22 - 32# ISIP 307#
FH 1574# FF -- FSIP --

3291- 3300' KB Cream to tan, medium crystalline, dolomite.
Good show of free oil in poor intercrystalline
& "vuggy" porosity, no odor, good stain, and
a strong cut.

DRILL STEM TEST #5 3290 to 3300' KB 10' Anchor

Blow: surface blow - died in 2 min.

Times: Open 30, Closed 30, Open 0, Closed 0.

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Kriley #A - 3
Page 4

Drill Stem Test #5 (cont.)

Recovered: 65' Heavy Drilling Mud (ran down inside of pipe)

Pressures: IH 1662# IF 41 - 43# ISIP 701#
FH 1537# FF -- FSIP --

3301-10' KB Cream to tan, fine to medium crystalline, dense, dolomite. Good show of free oil in poor to fair intercrystalline porosity, no odor, good stain, and a strong cut.

Drill Stem Test #6 3290 to 3310' KB 20' Anchor

Blow: surface blow -- died in 3 min.

Times: Open 30, Closed 30, Open 0, Closed 0.

Recovered: 5' Oil Cut Mud

Pressures: IH 1643# IF 18 - 24# ISIP 1004#
FH 1516# FF -- FSIP --

3311-20' KB Cream to tan, fine to medium crystalline, dense, dolomite. Fair to good show of free oil in fair to poor intercrystalline porosity, no odor, good stain, and a good cut.

DRILL STEM TEST #7 3290 to 3320' KB 30' Anchor

Blow: bottom of bucket in 7 Min. 2nd -- bottom of bucket in 9 min.

Times: Open 30, Closed 45, Open 30, Closed 45.

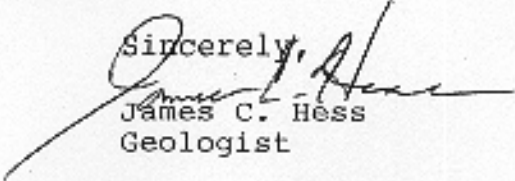
Recovered: 3' Heavy Oil Cut Mud
107' Water Cut Mud
590' Mud Cut SW

Pressures: IH 1614# IF 31 - 217# ISIP 1133#
FH 1518# FF 218 - 331# FSIP 1131#

ROTARY TOTAL DEPTH 3320 (-1538)

No logs were needed or run. The Kriley #A - 3 was plugged on 6-19-12, with much disappointment !!

Sincerely,


James C. Hess
Geologist

H-E-S-S

O-I-L
C-O

HESS OIL COMPANY

P.O. Box 1009

McPherson, KS 67460-1009

GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

COMPANY HESS OIL COMPANY
 LEASE KRILEY * A-3
 FIELD RIFFE
 LOCATION 800' FNL, 400' FWL
 SEC 29 TWSP 7 S RGE 17 W
 COUNTY ROOKS STATE KANSAS

ELEVATIONS

KB 1782'
 DF 1780'
 GL 1777'

Measurements Are All
 From KB

CONTRACTOR MALLARD J.V.
 SPUD 6-11-12 COMP 6-19-12
 RTD 3320 LTD none
 MUD UP 250' TYPE MUD CHEMICAL

CASING
 SURFACE 80' COND.
 PRODUCTION none

ELECTRICAL SURVEYS
DUAL INDUCTION,
POROSITY, & MICRO.

SAMPLES SAVED FROM 2900' TO TD
 DRILLING TIME KEPT FROM 2800' TO TD
 SAMPLES EXAMINED FROM 2900' TO TD
 GEOLOGICAL SUPERVISION FROM 2730' TO TD
 GEOLOGIST ON WELL JAMES C. HESS

FORMATION TOPS	LOG	SAMPLES				
ANHYDRITE		1195 (+587)	17 W			
BASE ANHYDRITE		1232 (+550)				
HEEBNER		2918 (-1136)				
LANSING		2962 (-1180)				
ARBUCKLE		3252 (-1470)				
R T D		3320 (-1538)				

7 S

Anhydrite

Remarks, drill stem tests, etc.

Sample	Description
1	...
2	...
3	...
4	...
5	...
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99	...
100	...

DEPTH

Drilling time in minutes

ithology

ANHYDRITE 1195 (+587)

8-5/8" at 1200' KB

BASE ANHYDRITE 1232
(+550)

2800

20

40

60

80

2900

lim - tan v. fine sl. chalky lm
w/ pe's w/ chalky lm
few green + red sh's

AA w/ less sh's NO δ
no show

B/ calc. sh's

lim - tan v. fine sl. chalky lm
w/ some w/ chalky lm
some green sh's

AA w/ more sh's NO δ
no show

wt - lim v. fine ss lm
w/ pe's w/ chalky lm
some green sh's NO show

AA w/ more green sh's

HEEBNER 2918 (-1136)

20

40

LANSING 2962 (-1180).

WT - lim VF-Fin DS LM w/pe's w/ chalky LM Some green sh's No show	60
AA w/ more green sh's NO P NO SHOW	
WT - TAN VF-Fin DS LM w/pe's w/ chalky LM Some green sh's NO SHOW	
AA w/ less sh's NO P NO SHOW	80
WT - lim VF-Fin DS LM w/pe's w/ chalky LM Some green sh's	
WT - lim VF-Fin DS LM w/pe's w/ chalky LM Some green sh's	
AA w/ less sh's NO P NO SHOW	3000
WT - lim VF-Fin chalky LM w/ some w/ chalky LM Some green sh's	
AA w/ less sh's NO P NO SHOW	20
lim VF-Fin sl chalky LM w/ pe's w/ chalky LM Some green + Red sh's	
AA w/ less sh's NO P NO SHOW	40
TAN - WT VF-Fin DS FINE " LM w/ some sh's	
Full to good show pt free oil in from Fin sl chalky LM w/ poor intermix p good odor.	60
lim - TAN VF-Fin DS LM w/pe's w/ chalky LM Few Red + green sh's	
AA w/ more green + Red sh's NO P NO SHOW	80
lim VF-Fin sl chalky LM w/pe's w/ chalky LM Some green + Red sh's NO SHOW	
lim - TAN VF-Fin DS LM w/ some w/ chalky LM Some green sh's NO SHOW	3100

DST *1
3054 - 3144' KB
90' ANCHOR
TIMES:
45-45-45-45
RECOVERED:
19' SOC M 240' mud
PRESSURES:
IN 1486#
FH 1443#
IF 46 - 129#
KF 133 - 159#
JSEP 401#
FSL 356#

FE 133-159#
ISLP 401#
FSLP 356#

20
 WT-Tan VFALM DS LM
 w/PE's WT chalky LM
 Some green sh's
 No show

40
 Weak-fair show of fire oil in
 Ctm Falm DS LM No odor "fine"

60
 Fair show of fire oil in Ctm
 Falm DS LM No odor Poor

80
 WT VFALM DS LM
 w/PE's WT chalky LM
 Some green + Red sh's

3200
 AA w/more sh's
 No show

20
 WT-Tan VFALM DS LM
 w/PE's WT chalky LM
 Some green + Red sh's

40
 AA w/more Red + Green sh's
 No show

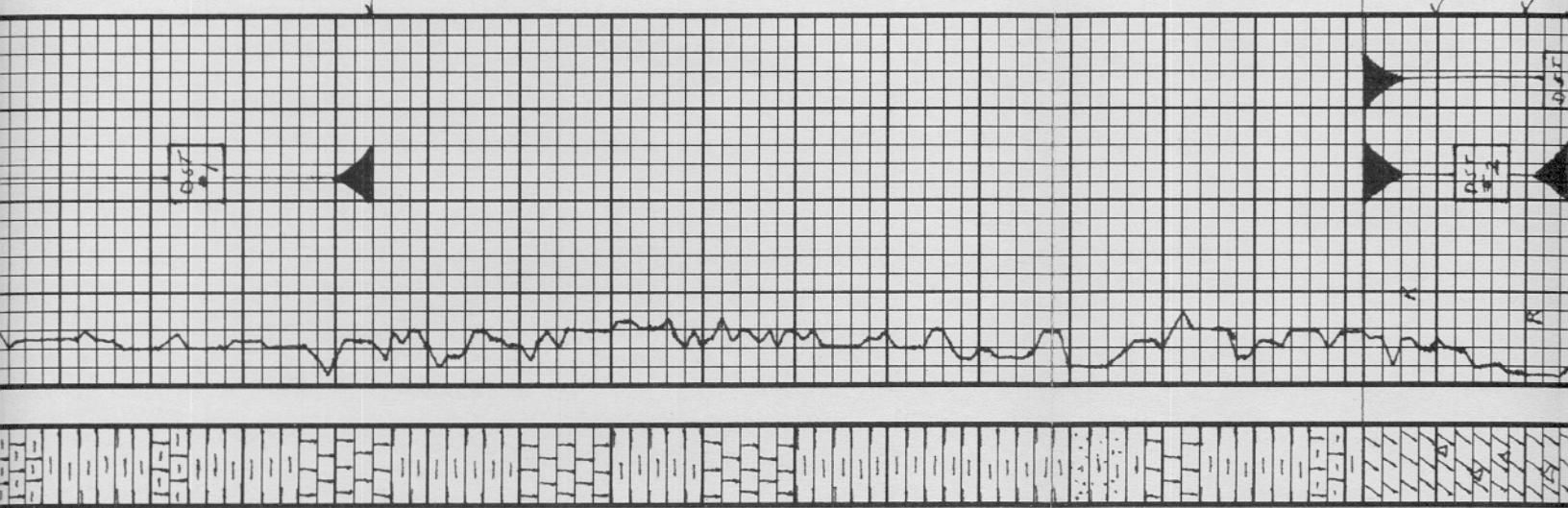
60
 SI show in WT-Ctm VFALM DS LM
 No odor

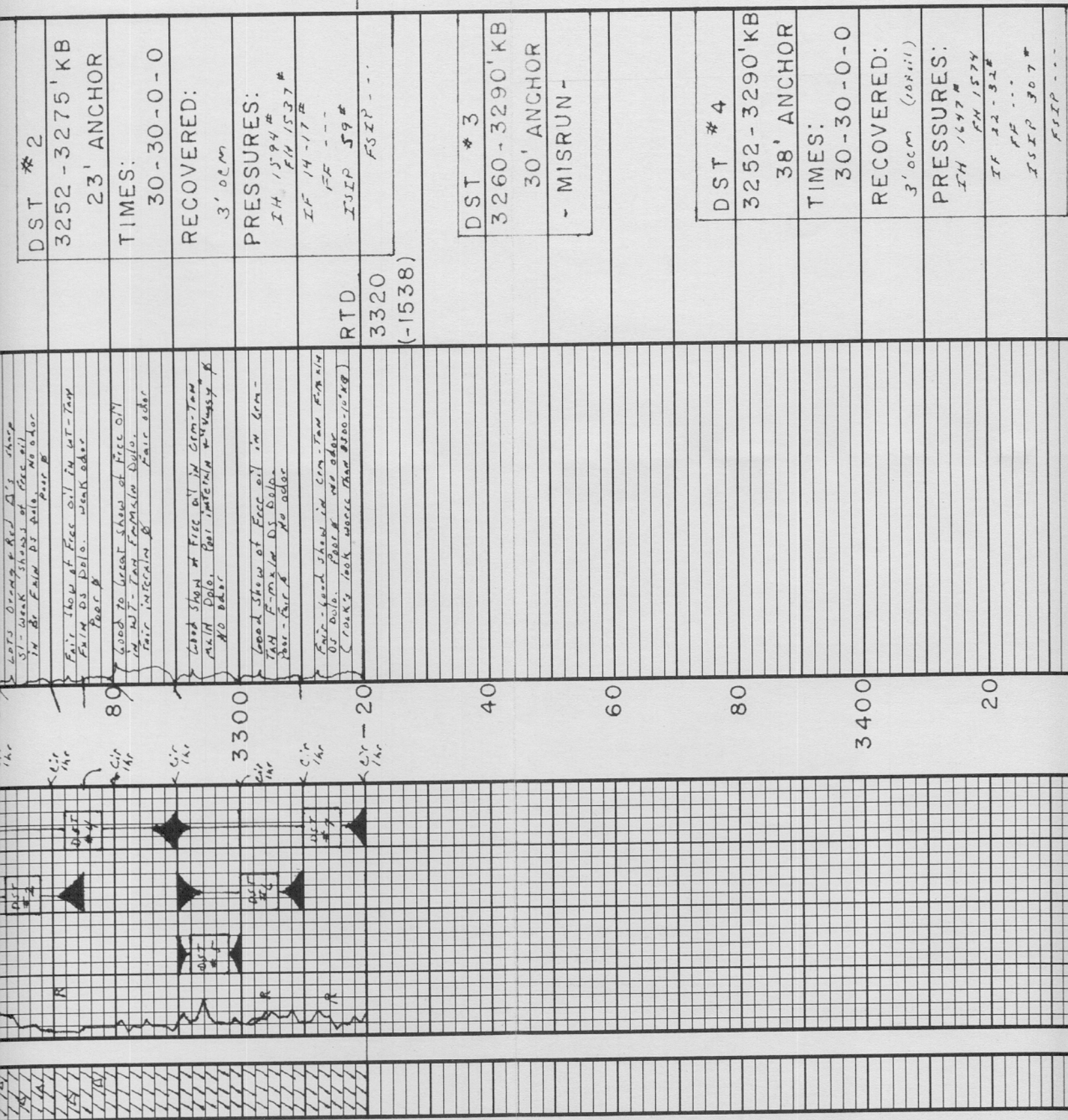
Lots Orange + Red sh's sharp
 SI-Weak shows of fire oil
 in Dr Falm DS LM No odor
 Poor

Fair show of fire oil in WT-Tan
 Falm DS LM No odor

ARBuckle 3252 (-1470)

DST #2
 3252-3275' KB





DST #2

3252-3275' KB

23' ANCHOR

TIMES:

30-30-0-0

RECOVERED:

3' OCM

PRESSURES:

IH 1594#

FH 1537#

IF 14-17#

IF - - -

ISIP 59#

FZIP - - -

DST #3

3260-3290' KB

30' ANCHOR

- MISRUN -

DST #4

3252-3290' KB

38' ANCHOR

TIMES:

30-30-0-0

RECOVERED:

3' OCM (108.11)

PRESSURES:

IH 1647#

FH 1574#

IF 22-32#

IF - - -

ISIP 307#

FZIP - - -

IF 22-32#
FF ---
ISIP 307#
FSIP ---

DST #5
3290-3300' KB
10' ANCHOR
TIMES:
30-30-0-0
RECOVERED:
65' m w/ oil specks
PRESSURES:
IH 1662#
FH 1537#
IF 41-43
FF ---
ISIP 701#
FSIP ---

DST #6
3290-3310' KB
20' ANCHOR
TIMES:
30-30-0-0
RECOVERED:
5' 50cm
PRESSURES:
IH 1643#
FH 1516#
IF 18-24#
FF ---
ISIP 1004#
FSIP ---

DST #7

[illegible]

ALLIED OIL & GAS SERVICES, LLC 056141

Federal Tax I.D.# 20-5975804

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

SERVICE POINT:

Russell

DATE <u>6-11-12</u>	SEC <u>29</u>	TWP <u>73</u>	RANGE <u>17</u>	CALLED OUT	CON LOCATION	JOB START <u>10:30</u>	JOB FINISH <u>11:00</u>
LEASE <u>Kriley</u>	WELL <u>A-3</u>	LOCATION <u>Station S to river bridge</u>			COUNTY <u>Rock</u>	STATE <u>KS</u>	
OLD OR NEW (Circle one) <u>NEW</u>		<u>2 E 13 4E 3140</u>					

CONTRACTOR Mallard & Co

TYPE OF JOB conductor

HOLE SIZE 17 1/2 TD 120

CASING SIZE 13 3/8 DEPTH 120

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

FRES. MAX MINIMUM

MEAS. LINE SHOE JOINT 15

CEMENT LEFT IN CSG. 15

PERFS.

DISPLACEMENT 16 1/2 bbl

OWNER

CEMENT

AMOUNT ORDERED 130 yds class A
3% CC 2% GA

COMMON	<u>130</u>	@ <u>16.25</u>	<u>2112.50</u>
POZMIX		@	
GEL	<u>3</u>	@ <u>21.25</u>	<u>63.75</u>
CHLORIDE	<u>5</u>	@ <u>58.32</u>	<u>291.60</u>
ASC		@	

EQUIPMENT

PUMP TRUCK CEMENTER Tom McLean

409 HELPER Kory Provencher

BULK TRUCK

410 DRIVER Robert Kachovich

BULK TRUCK

DRIVER

HANDLING	<u>130</u>	@ <u>3.25</u>	<u>422.50</u>
MILEAGE	<u>8.142</u>	@ <u>11</u>	<u>89.56</u>
TOTAL			<u>3706.21</u>

REMARKS:

Run 3 1/2 13 3/8 4 1/2 pipe
circulate 40 minutes
mix 130 yds class A 3% CC 2% GA
displace 16 1/2 bbl
spot well in
& cement 130 yds circulate to surface
Thanks!

CHARGE TO: Hess Oil Corp.

STREET

CITY STATE ZIP

SERVICE

DEPTH OF JOB			
PUMP TRUCK CHARGE			<u>1125.00</u>
EXTRA FOOTAGE	@		
MILEAGE WITHIN	<u>59</u>	@ <u>7.00</u>	<u>413.00</u>
MANIFOLD	@		
MILE	<u>69</u>	@ <u>4.00</u>	<u>276.00</u>
XPCLG	@	<u>3.8500</u>	<u>NC</u>
TOTAL			<u>1774.00</u>

PLUG & FLOAT EQUIPMENT

	@		
	@		
	@		
	@		
	@		
TOTAL			<u>0</u>

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 Sandra McDonald

SIGNATURE [Signature]

SALES TAX (If Any) 155.43

TOTAL CHARGES 5,425.87

DISCOUNT 450 1539.56 IF PAID IN 30 DAYS

Net 3921.81 RS 6-12

ALLIED OIL & GAS SERVICES, LLC 056148

Federal Tax ID # 20-5975804

REMIT TO P.O. BOX 31
RUSSELL, KANSAS 66665

SERVICE POINT

0100-11

DATE <u>6-30-10</u>	SEC <u>29</u>	TWP <u>7s</u>	RANGE <u>17W</u>	CALLED OUT	ON LOCATION	JOB START <u>1:30</u>	JOB FINISH <u>2:00</u>
LEASE <u>Kyley</u>	WELL # <u>A-3</u>	LOCATION <u>Skullon ls 2nd 4s</u>			COUNTY <u>Rock</u>	STATE <u>KS</u>	
OLD OR NEW (Circle one) <u>NEW</u>				4E Nite			

CONTRACTOR Mallard

TYPE OF JOB R-Plug

HOLE SIZE 1 1/8 8 1/2 7.0

CASING SIZE 8 1/2 DEPTH 121

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOP JOINT

CEMENT LEFT IN CSG.

PERFS.

DISPLACEMENT

OWNER

CRMENT

AMOUNT ORDERED 245 1240

EQUIPMENT

PUMP TRUCK CEMENTER John Melanich

409 HELPER Tom Pannatier

BULK TRUCK

448 DRIVER Robert Yakubovich

BULK TRUCK

DRIVER

COMMON	<u>149</u>	@ <u>16.25</u>	<u>2421.25</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>2</u>	@ <u>2.70</u>	<u>5.40</u>
		@	
		@	
		@	
		@	
HANDLING	<u>245</u>	@ <u>2.25</u>	<u>551.25</u>
MILEAGE	<u>10,710</u>	@ <u>.11</u>	<u>1178.10</u>
TOTAL			<u>5394.10</u>

REMARKS:

loaded 1st at 3232 mix 15% cement
Displaced 4.30 min mud, pulled to 1213
mixed 25% cement, pulled 1161 ft, pulled to
652 loaded 1st, mixed 100% cement line, pulled to
1160 loaded 1st, mix 10% cement line, pulled to
410 installed wooden Plug, with cement for future
mixed 30% cement, with 15% cement, pulled

SERVICE

DEPTH OF JOB			<u>1250.00</u>
PUMP TRUCK CHARGE			
EXTRA FOOTAGE	@		
MILEAGE IMPV	<u>42</u>	@ <u>7.00</u>	<u>294.00</u>
MANIFOLD	@		
	<u>42</u>	@ <u>4.00</u>	<u>168.00</u>
APPM	<u>2</u>	@ <u>4.00</u>	<u>8.00</u>
APPM	<u>2</u>	@ <u>4.00</u>	<u>8.00</u>
TOTAL			<u>2512.00</u>

CHARGE TO: Hess Oil Corp

STREET

CITY STATE ZIP

PLUG & FLOAT EQUIPMENT

<u>8 1/2</u> wooden Plug	@	<u>64.00</u>
	@	
	@	
	@	
	@	
TOTAL <u>64.00</u>		

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 Fran E Gorman

SIGNATURE Frank Gorman

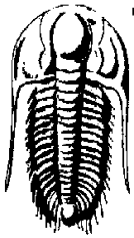
SALES TAX (If Any) 495.81

TOTAL CHARGES 7,870.10

DISCOUNT 20/50 3066.05 IF PAID IN 30 DAYS

Net 5804.05 85 621

before tax



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Hess Oil Co.
PO Box 1009
McPherson, Ks 67460
ATTN: Jamie Hess

29-7-17 Rooks, Ks

Kriley A-3

Job Ticket: 47148

DST#: 1

Test Start: 2012.06.16 @ 17:32:00

GENERAL INFORMATION:

Formation: **BKC**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:41:30

Time Test Ended: 00:22:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Brian Fairbank

Unit No: 41

Interval: 3054.00 ft (KB) To 3144.00 ft (KB) (TVD)

Total Depth: 3144.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 1782.00 ft (KB)

1777.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6752 Inside

Press@RunDepth: 159.47 psig @ 3057.00 ft (KB)

Start Date: 2012.06.16

End Date:

2012.06.17

Start Time: 17:32:01

End Time:

00:22:00

Capacity: 8000.00 psig

Last Calib.: 2012.06.17

Time On Btm: 2012.06.16 @ 19:40:30

Time Off Btm: 2012.06.16 @ 22:43:30

TEST COMMENT: IFP - weak blow throughout 1/4" - 3"

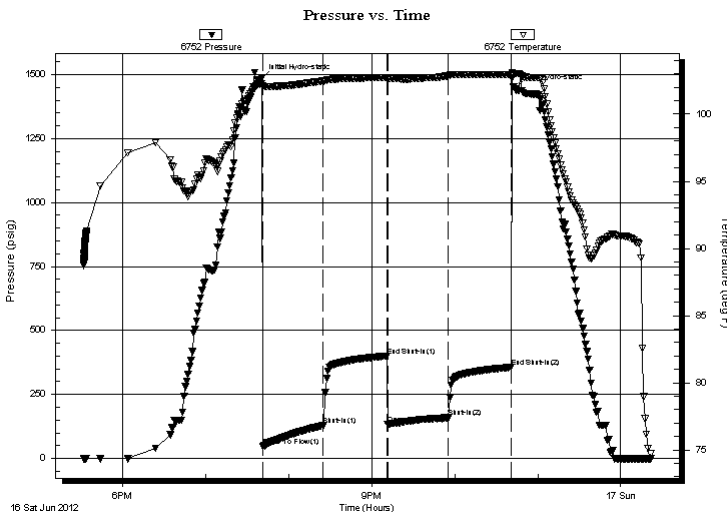
ISI - no blow back

FFP - no blow 3 min - 1 1/4"

FSI - no blow back

PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1485.79	102.29	Initial Hydro-static
1	45.86	102.07	Open To Flow (1)
45	128.99	102.46	Shut-In(1)
91	400.60	102.73	End Shut-In(1)
91	132.50	102.63	Open To Flow (2)
135	159.47	102.86	Shut-In(2)
180	356.01	102.95	End Shut-In(2)
183	1443.47	103.02	Final Hydro-static

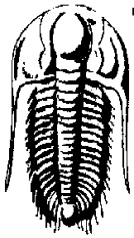


Recovery

Length (ft)	Description	Volume (bbl)
240.00	DRL MUD 100%	1.18
19.00	VSOCM 3%O, 97%M	0.25
1.00	FREE OIL TSTM	0.01

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Hess Oil Co.
PO Box 1009
McPherson, Ks 67460
ATTN: Jamie Hess

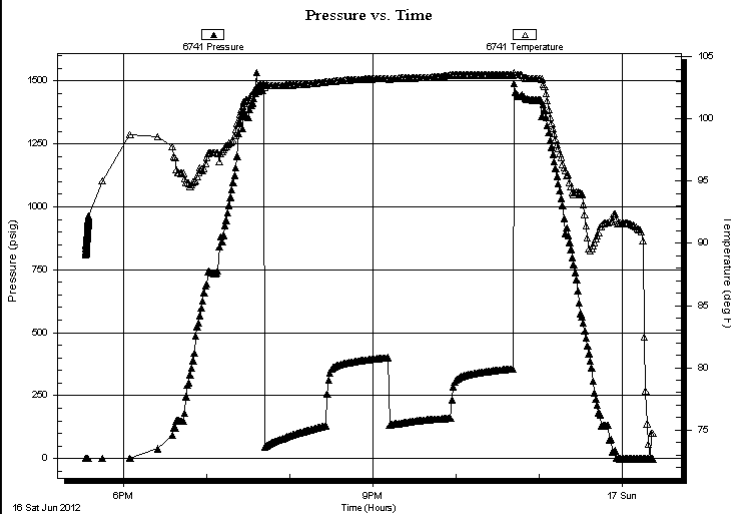
29-7-17 Rooks, Ks
Kriley A-3
Job Ticket: 47148 **DST#: 1**
Test Start: 2012.06.16 @ 17:32:00

GENERAL INFORMATION:

Formation: **BKC**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 19:41:30
Time Test Ended: 00:22:00
Interval: **3054.00 ft (KB) To 3144.00 ft (KB) (TVD)**
Total Depth: 3144.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good
Test Type: Conventional Bottom Hole (Initial)
Tester: Brian Fairbank
Unit No: 41
Reference Elevations: 1782.00 ft (KB)
1777.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 6741 Outside
Press@RunDepth: psig @ 3057.00 ft (KB)
Start Date: 2012.06.16 End Date: 2012.06.17
Start Time: 17:32:34 End Time: 00:22:33
Capacity: 8000.00 psig
Last Calib.: 2012.06.17
Time On Btm:
Time Off Btm:

TEST COMMENT: IFP - weak blow throughout 1/4" - 3"
ISI - no blow back
FFP - no blow 3 min - 1 1/4"
FSI - no blow back



PRESSURE SUMMARY

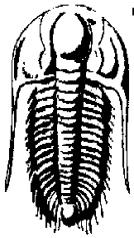
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
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Recovery

Length (ft)	Description	Volume (bbl)
240.00	DRL MUD 100%	1.18
19.00	VSOCM 3%O, 97%M	0.25
1.00	FREE OIL TSTM	0.01

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Hess Oil Co.
PO Box 1009
McPherson, Ks 67460
ATTN: Jamie Hess

29-7-17 Rooks, Ks
Kriley A-3
Job Ticket: 47148 **DST#: 1**
Test Start: 2012.06.16 @ 17:32:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 45.00 sec/qt
Water Loss: 7.20 in³
Resistivity: ohm.m
Salinity: 2300.00 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: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
240.00	DRL MUD 100%	1.180
19.00	VSOCM 3%O, 97%M	0.248
1.00	FREE OIL TSTM	0.014

Total Length: 260.00 ft Total Volume: 1.442 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Serial #: 6752

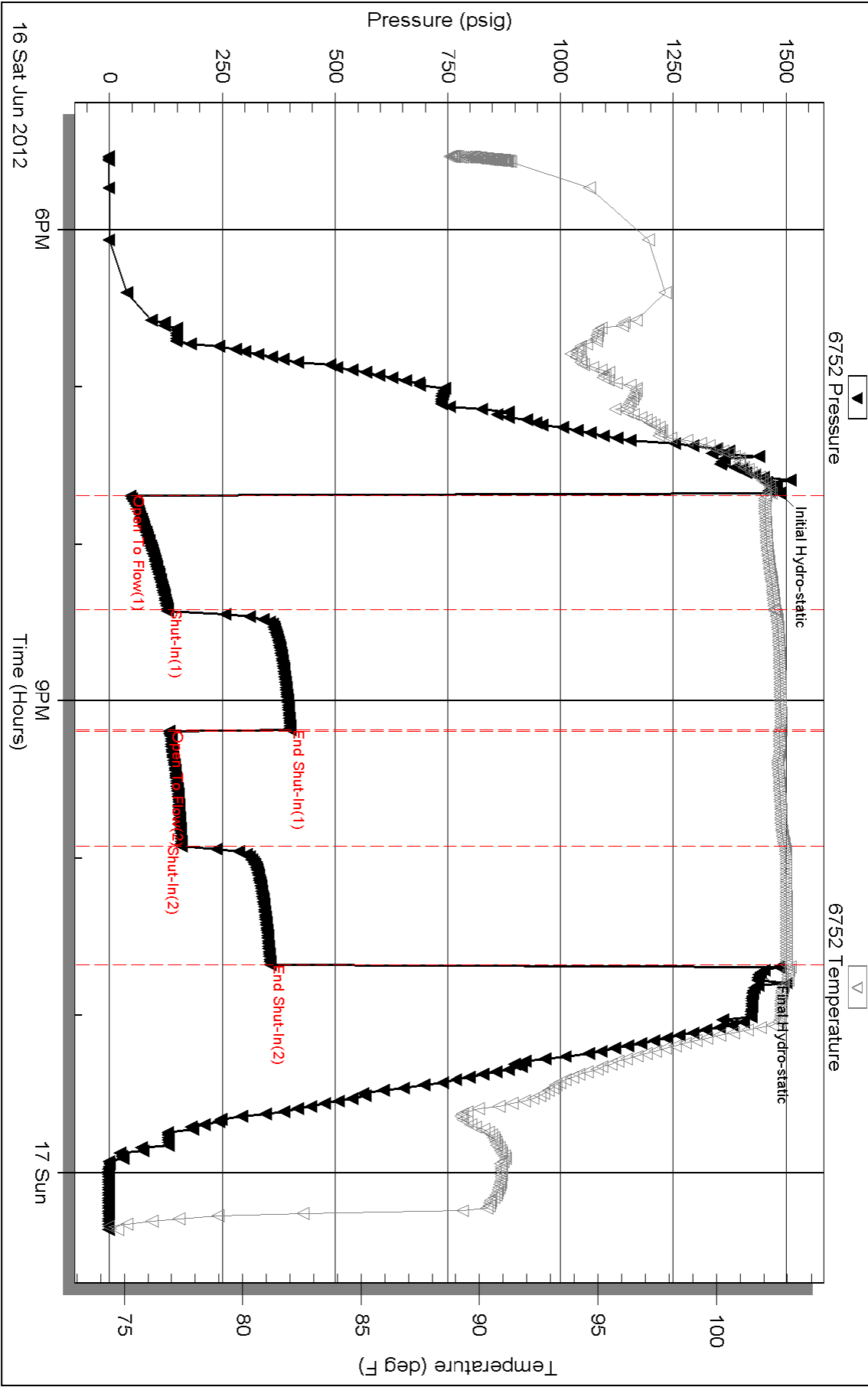
Inside

Hess Oil Co.

Kriley A-3

DST Test Number: 1

Pressure vs. Time

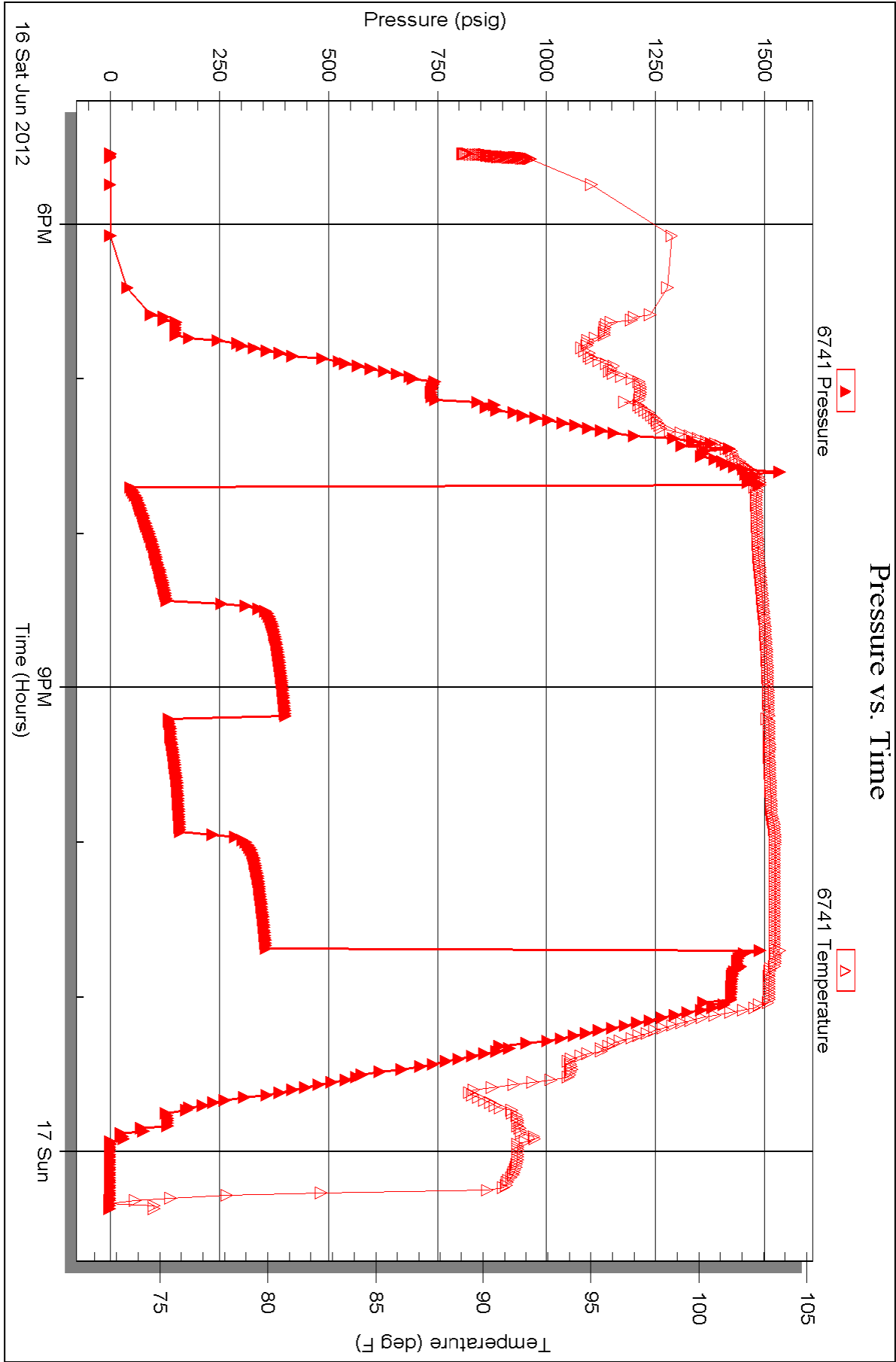


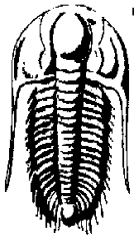
Serial #: 6741

Outside Hess Oil Co.

Kriley A-3

DST Test Number: 1





TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Hess Oil Co.
PO Box 1009
McPherson, Ks 67460
ATTN: Jamie Hess

29-7-17 Rooks, Ks

Kriley A-3

Job Ticket: 47149

DST#: 2

Test Start: 2012.06.17 @ 12:06:37

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:45:37

Time Test Ended: 16:38:07

Test Type: Conventional Bottom Hole (Reset)

Tester: Brian Fairbank

Unit No: 41

Interval: 3252.00 ft (KB) To 3275.00 ft (KB) (TVD)

Total Depth: 3275.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 1782.00 ft (KB)

1777.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6752 Inside

Press@RunDepth: 16.67 psig @ 3257.00 ft (KB)

Start Date: 2012.06.17

End Date:

2012.06.17

Start Time: 12:06:38

End Time:

16:38:07

Capacity: 8000.00 psig

Last Calib.: 2012.06.17

Time On Btm: 2012.06.17 @ 13:44:37

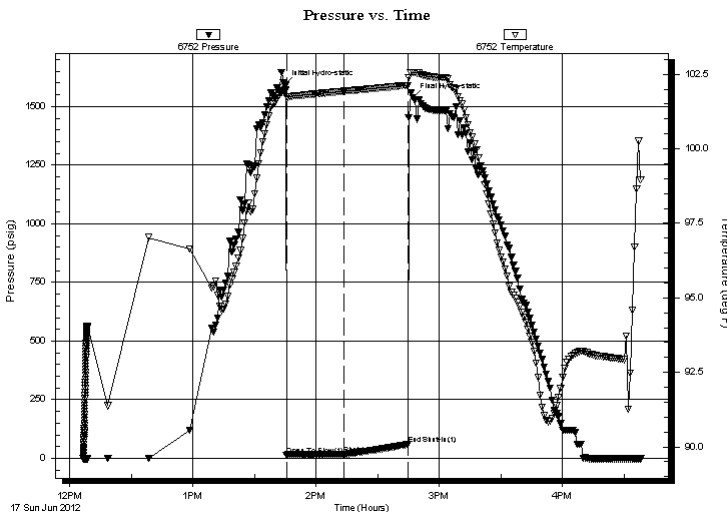
Time Off Btm: 2012.06.17 @ 14:47:07

TEST COMMENT: IFP - sur blow - died 4 min

ISI - no blow back

TIME - 30-30

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1594.16	101.94	Initial Hydro-static
1	14.20	101.75	Open To Flow (1)
29	16.67	101.93	Shut-In(1)
60	59.39	102.13	End Shut-In(1)
63	1537.15	102.56	Final Hydro-static

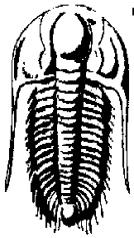
Recovery

Length (ft)	Description	Volume (bbl)
1.00	OCM 10%O, 90%M	0.00

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

Hess Oil Co.
PO Box 1009
McPherson, Ks 67460
ATTN: Jamie Hess

29-7-17 Rooks, Ks

Kriley A-3

Job Ticket: 47149

DST#: 2

Test Start: 2012.06.17 @ 12:06:37

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:45:37

Time Test Ended: 16:38:07

Test Type: Conventional Bottom Hole (Reset)

Tester: Brian Fairbank

Unit No: 41

Interval: 3252.00 ft (KB) To 3275.00 ft (KB) (TVD)

Reference Elevations: 1782.00 ft (KB)

Total Depth: 3275.00 ft (KB) (TVD)

1777.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 6741 Outside

Press@RunDepth: psig @ 3257.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.06.17

End Date:

2012.06.17

Last Calib.:

2012.06.17

Start Time: 12:06:19

End Time:

16:37:48

Time On Btm:

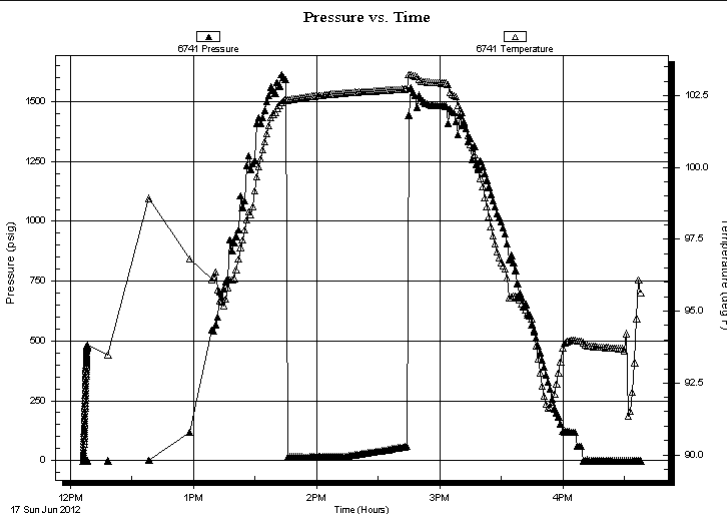
Time Off Btm:

TEST COMMENT: IFP - sur blow - died 4 min

ISI - no blow back

TIME - 30-30

PRESSURE SUMMARY



Time
(Min.)

Pressure
(psig)

Temp
(deg F)

Annotation

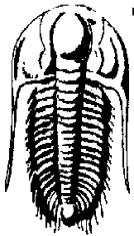
Recovery

Length (ft)	Description	Volume (bbl)
1.00	OCM 10%O, 90%M	0.00

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

FLUID SUMMARY

Hess Oil Co.

29-7-17 Rooks, Ks

PO Box 1009
McPherson, Ks 67460

Kriley A-3

Job Ticket: 47149

DST#: 2

ATTN: Jamie Hess

Test Start: 2012.06.17 @ 12:06:37

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 48.00 sec/qt

Water Loss: 7.19 in³

Resistivity: ohm.m

Salinity: 2300.00 ppm

Filter Cake: inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

Water Salinity:

deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1.00	OCM 10%O, 90%M	0.005

Total Length: 1.00 ft Total Volume: 0.005 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

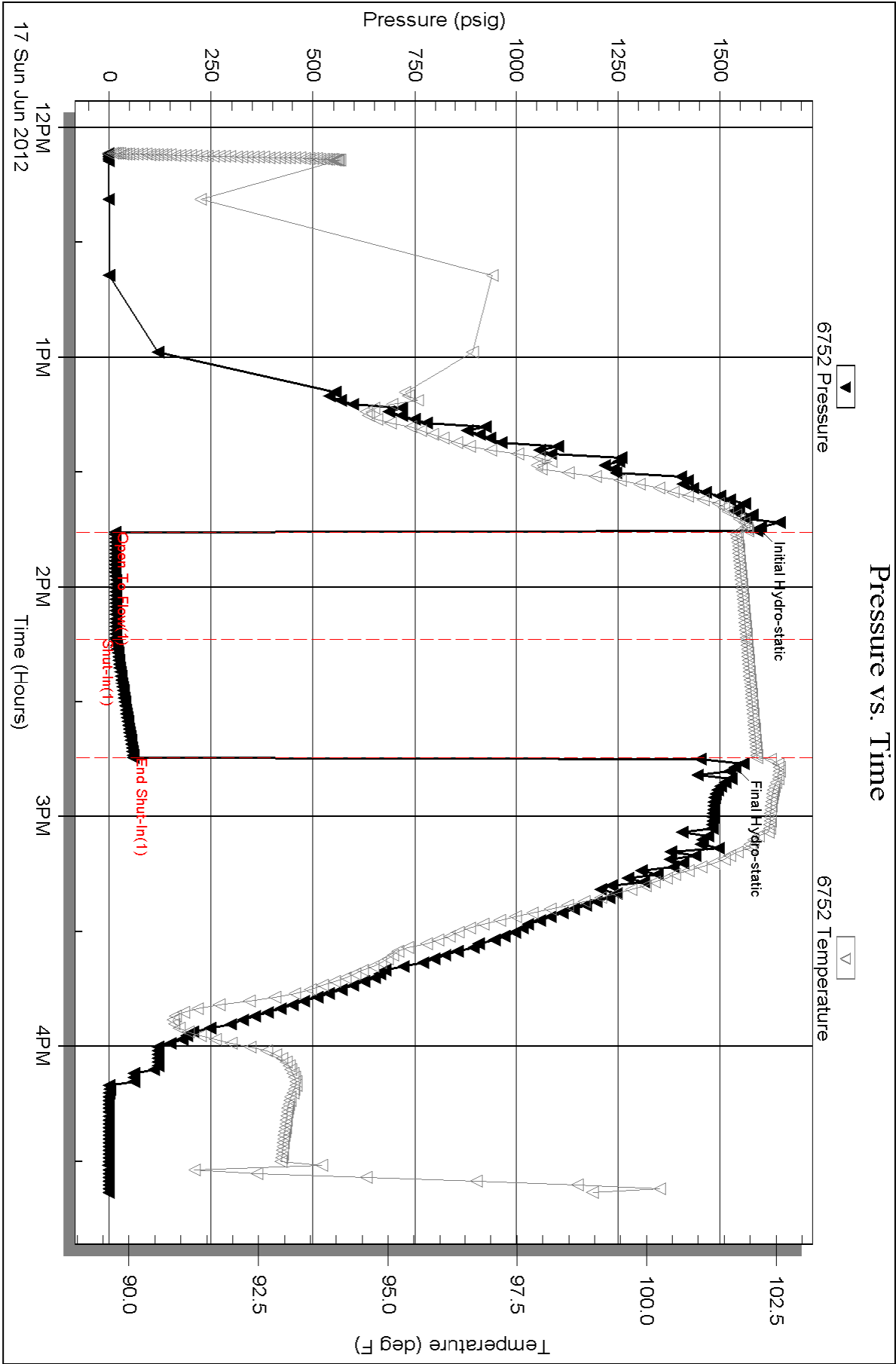
Serial #: 6752

Inside

Hess Oil Co.

Kriley A-3

DST Test Number: 2

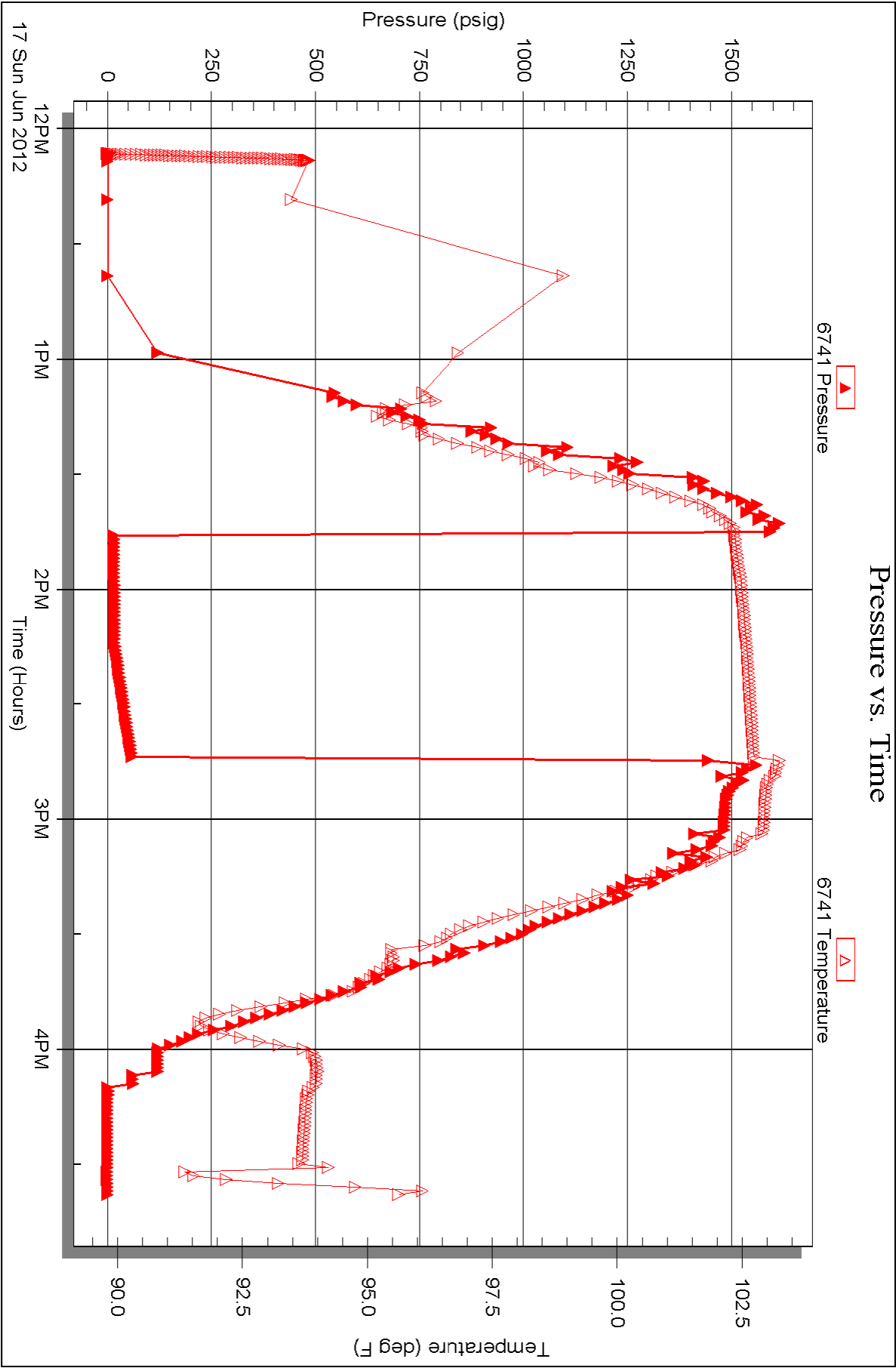


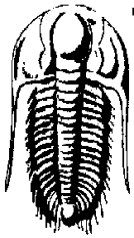
Serial #: 6741

Outside Hess Oil Co.

Kriley A-3

DST Test Number: 2





TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Hess Oil Co.
PO Box 1009
McPherson, Ks 67460
ATTN: Jamie Hess

29-7-17 Rooks, Ks

Kriley A-3

Job Ticket: 47150

DST#: 3

Test Start: 2012.06.16 @ 17:32:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened:

Time Test Ended:

Test Type: Conventional Bottom Hole (Reset)

Tester: Brian Fairbank

Unit No: 41

Interval: 3260.00 ft (KB) To 3290.00 ft (KB) (TVD)

Reference Elevations: 1782.00 ft (KB)

Total Depth: 3290.00 ft (KB) (TVD)

1777.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 6752 Inside

Press@RunDepth: psig @ 3267.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.06.17

End Date:

2012.06.18

Last Calib.:

2012.06.18

Start Time: 22:44:36

End Time:

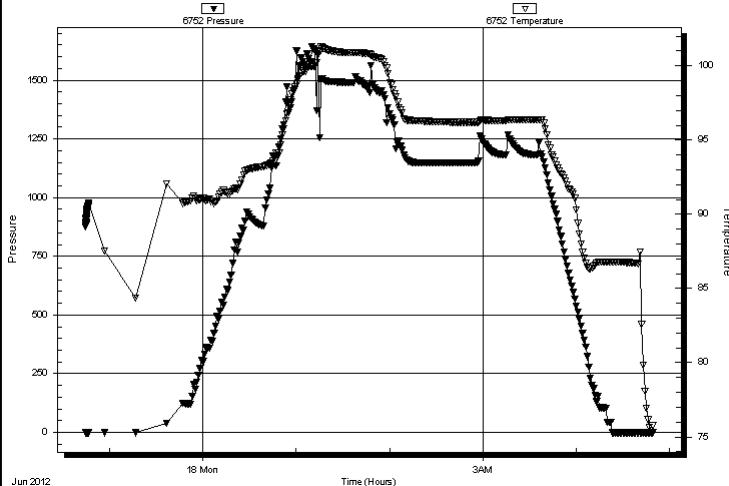
04:49:05

Time On Btm:

Time Off Btm:

TEST COMMENT: IFP -
ISI - PACKER FAILURE
FFP -
FSI -

Pressure vs. Time



PRESSURE SUMMARY

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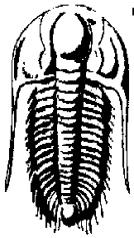
Recovery

Length (ft)	Description	Volume (bbl)

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

FLUID SUMMARY

Hess Oil Co.
PO Box 1009
McPherson, Ks 67460
ATTN: Jamie Hess

29-7-17 Rooks, Ks
Kriley A-3
Job Ticket: 47150 **DST#: 3**
Test Start: 2012.06.16 @ 17:32:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 48.00 sec/qt
Water Loss: 7.19 in³
Resistivity: ohm.m
Salinity: 2300.00 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: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl

Total Length: ft Total Volume: bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

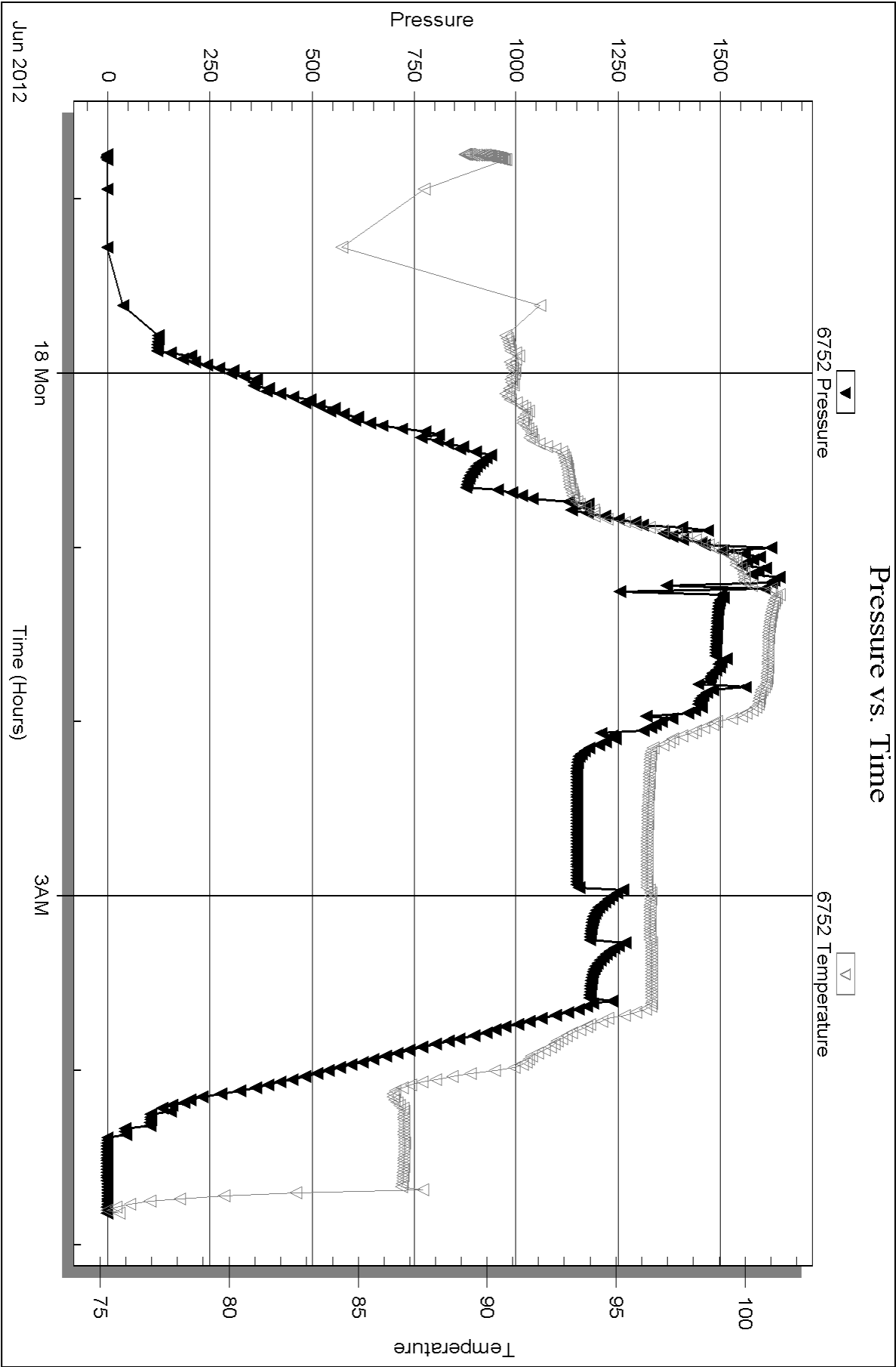
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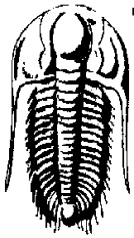
Inside

Hess Oil Co.

Kriley A-3

DST Test Number: 3





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Hess Oil Co.
PO Box 1009
McPherson, Ks 67460
ATTN: Jamie Hess

29-7-17 Rooks, Ks

Kriley A-3

Job Ticket: 47401

DST#: 4

Test Start: 2012.06.18 @ 04:58:43

GENERAL INFORMATION:

Formation: **Arbuckle (3)**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:25:43

Time Test Ended: 08:43:43

Test Type: Conventional Bottom Hole (Reset)

Tester: Brian Fairbank

Unit No: 41

Interval: 3252.00 ft (KB) To 3290.00 ft (KB) (TVD)

Total Depth: 3290.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 1782.00 ft (KB)

1777.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6741 Outside

Press@RunDepth: 32.09 psig @ 3262.00 ft (KB)

Start Date: 2012.06.18

End Date:

2012.06.18

Start Time: 04:58:44

End Time:

08:43:43

Capacity: 8000.00 psig

Last Calib.: 2012.06.18

Time On Btm: 2012.06.18 @ 06:24:43

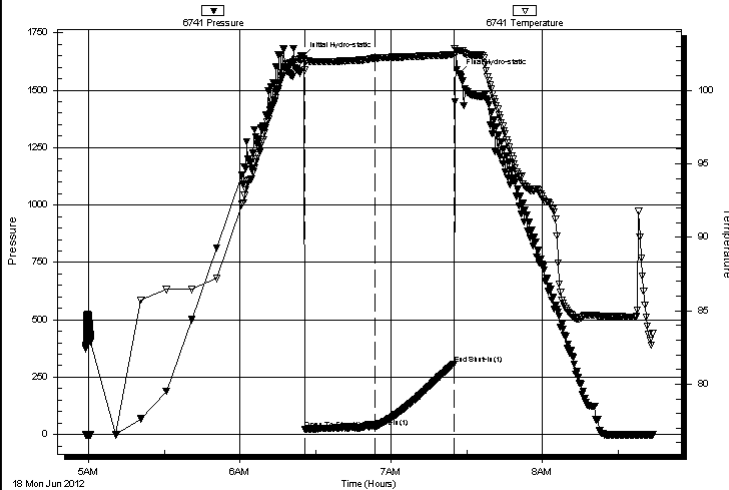
Time Off Btm: 2012.06.18 @ 07:26:43

TEST COMMENT: IFP - 1/2" blow - died 3 min

ISI - no blow back

TIME - 30-30

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1647.09	102.14	Initial Hydro-static
1	21.96	101.38	Open To Flow (1)
29	32.09	102.20	Shut-In(1)
60	306.62	102.42	End Shut-In(1)
62	1573.78	102.69	Final Hydro-static

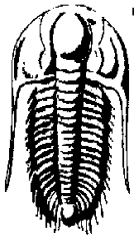
Recovery

Length (ft)	Description	Volume (bbl)
3.00	OCM 10%O, 90%M	0.01

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

FLUID SUMMARY

Hess Oil Co.
PO Box 1009
McPherson, Ks 67460
ATTN: Jamie Hess

29-7-17 Rooks, Ks
Kriley A-3
Job Ticket: 47401 **DST#: 4**
Test Start: 2012.06.18 @ 04:58:43

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 48.00 sec/qt
Water Loss: 7.19 in³
Resistivity: ohm.m
Salinity: 2300.00 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: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
3.00	OCM 10%O, 90%M	0.015

Total Length: 3.00 ft Total Volume: 0.015 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

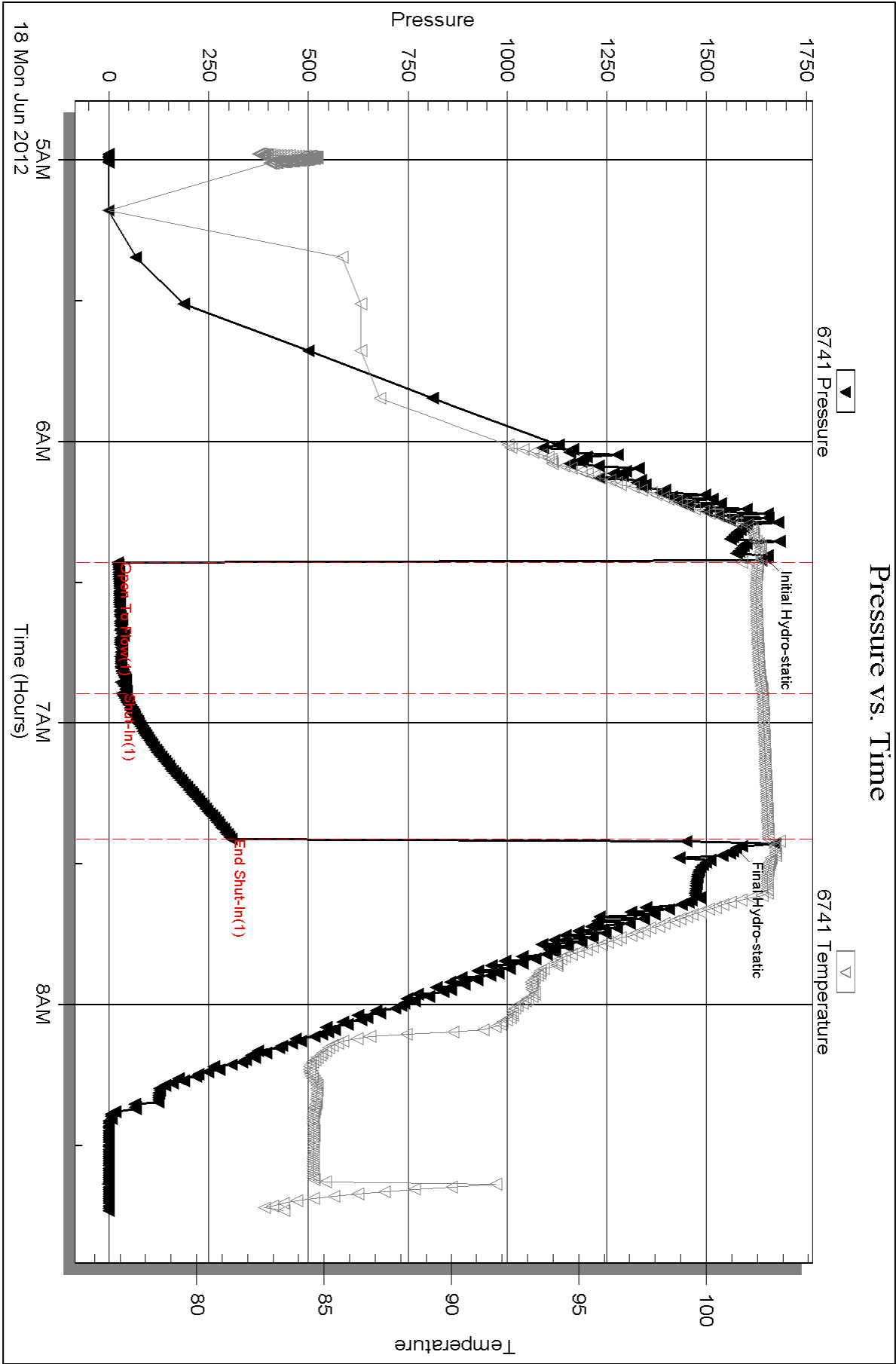
Recovery Comments:

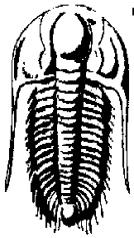
Serial #: 6741

Outside Hess Oil Co.

Kriley A-3

DST Test Number: 4





TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Hess Oil Co.
PO Box 1009
McPherson, Ks 67460
ATTN: Jamie Hess

29-7-17 Rooks, Ks

Kriley A-3

Job Ticket: 47402

DST#: 5

Test Start: 2012.06.18 @ 12:45:27

GENERAL INFORMATION:

Formation: **Arbuckle (4)**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:14:27

Time Test Ended: 16:43:27

Test Type: Conventional Bottom Hole (Reset)

Tester: Brian Fairbank

Unit No: 41

Interval: 3290.00 ft (KB) To 3300.00 ft (KB) (TVD)

Reference Elevations: 1782.00 ft (KB)

Total Depth: 3300.00 ft (KB) (TVD)

1777.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 6752 Inside

Press@RunDepth: 43.20 psig @ 3292.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.06.18

End Date:

2012.06.18

Last Calib.: 2012.06.18

Start Time: 12:45:28

End Time:

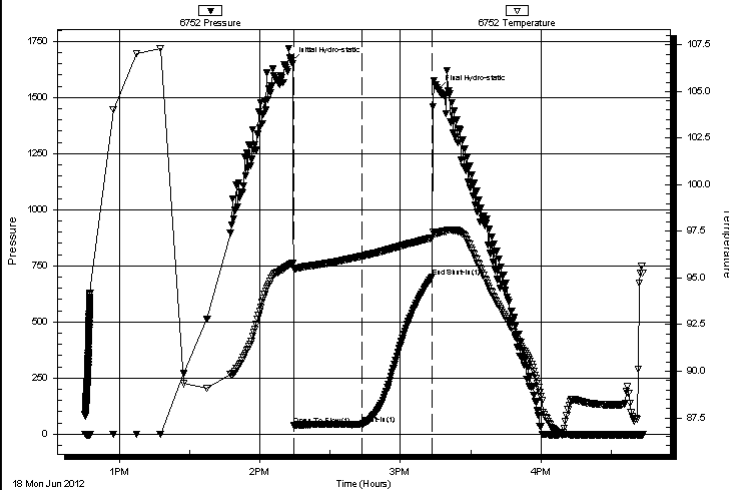
16:43:27

Time On Btm: 2012.06.18 @ 14:13:27

Time Off Btm: 2012.06.18 @ 15:15:57

TEST COMMENT: IFP - no blow
ISI - no blow back
TIME - 30-30

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1661.60	95.76	Initial Hydro-static
1	40.83	95.52	Open To Flow (1)
30	43.20	96.16	Shut-In(1)
60	701.29	97.15	End Shut-In(1)
63	1536.66	97.42	Final Hydro-static

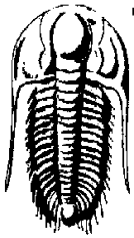
Recovery

Length (ft)	Description	Volume (bbl)
65.00	DRL MUD 100%	0.32

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

Hess Oil Co.
PO Box 1009
McPherson, Ks 67460
ATTN: Jamie Hess

29-7-17 Rooks, Ks

Kriley A-3

Job Ticket: 47402

DST#: 5

Test Start: 2012.06.18 @ 12:45:27

GENERAL INFORMATION:

Formation: **Arbuckle (4)**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:14:27

Time Test Ended: 16:43:27

Test Type: Conventional Bottom Hole (Reset)

Tester: Brian Fairbank

Unit No: 41

Interval: 3290.00 ft (KB) To 3300.00 ft (KB) (TVD)

Reference Elevations: 1782.00 ft (KB)

Total Depth: 3300.00 ft (KB) (TVD)

1777.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 6741 Outside

Press@RunDepth: psig @ 3292.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.06.18

End Date:

2012.06.18

Last Calib.:

2012.06.18

Start Time: 12:45:12

End Time:

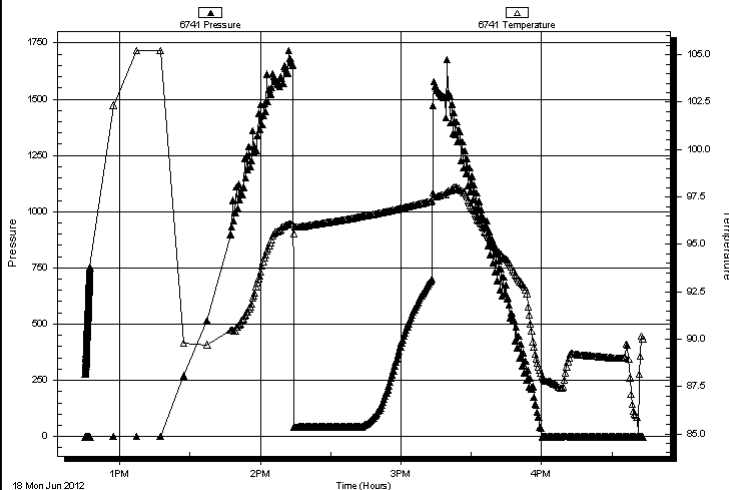
16:43:11

Time On Btm:

Time Off Btm:

TEST COMMENT: IFP - no blow
ISI - no blow back
TIME - 30-30

Pressure vs. Time



PRESSURE SUMMARY

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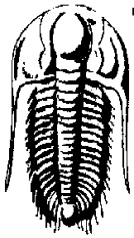
Recovery

Length (ft)	Description	Volume (bbl)
65.00	DRL MUD 100%	0.32

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

FLUID SUMMARY

Hess Oil Co.
PO Box 1009
McPherson, Ks 67460
ATTN: Jamie Hess

29-7-17 Rooks, Ks
Kriley A-3
Job Ticket: 47402 **DST#: 5**
Test Start: 2012.06.18 @ 12:45:27

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 49.00 sec/qt
Water Loss: 7.18 in³
Resistivity: ohm.m
Salinity: 2300.00 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: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
65.00	DRL MUD 100%	0.320

Total Length: 65.00 ft Total Volume: 0.320 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

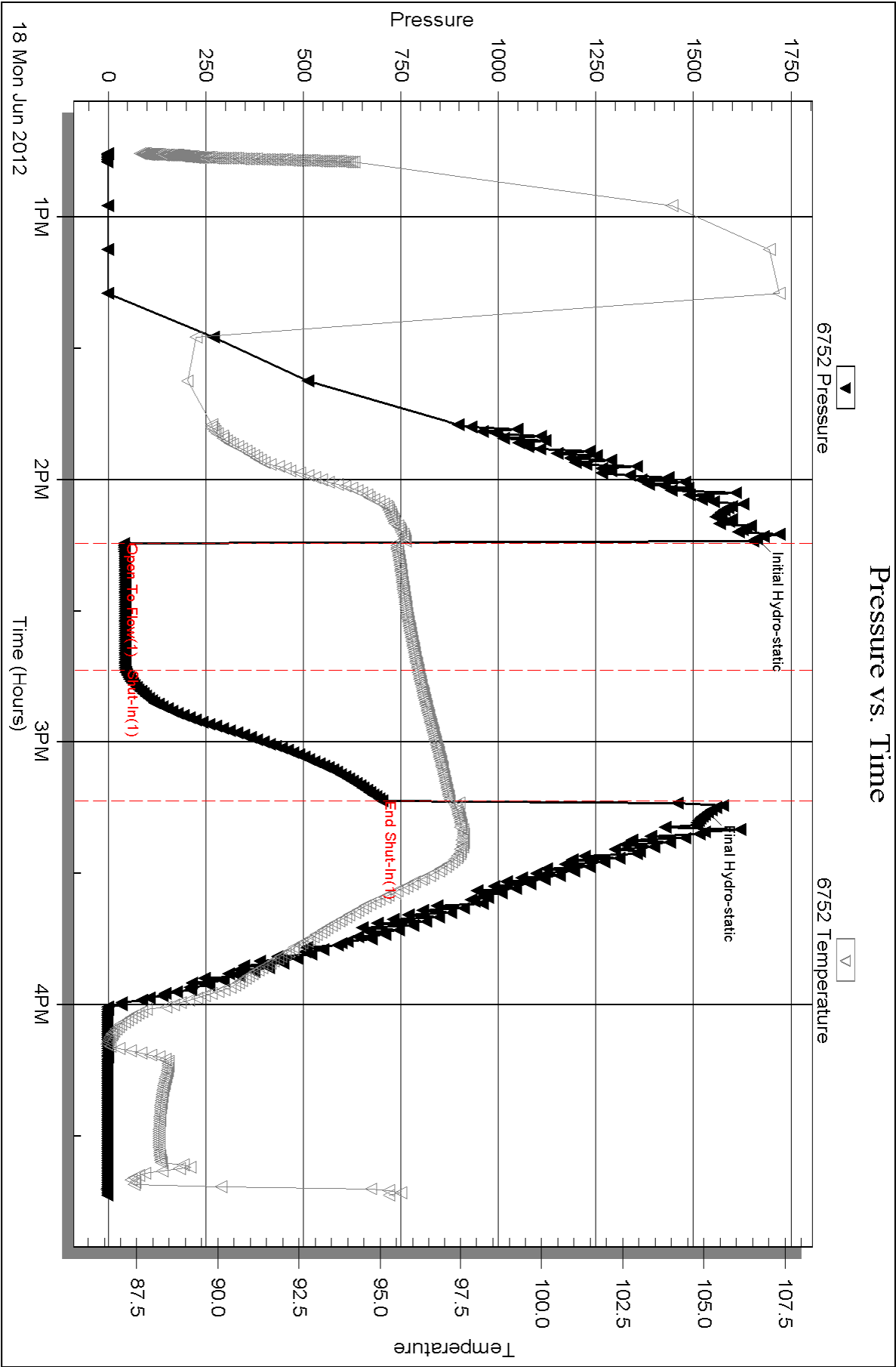
Serial #: 6752

Inside

Hess Oil Co.

Kriley A-3

DST Test Number: 5

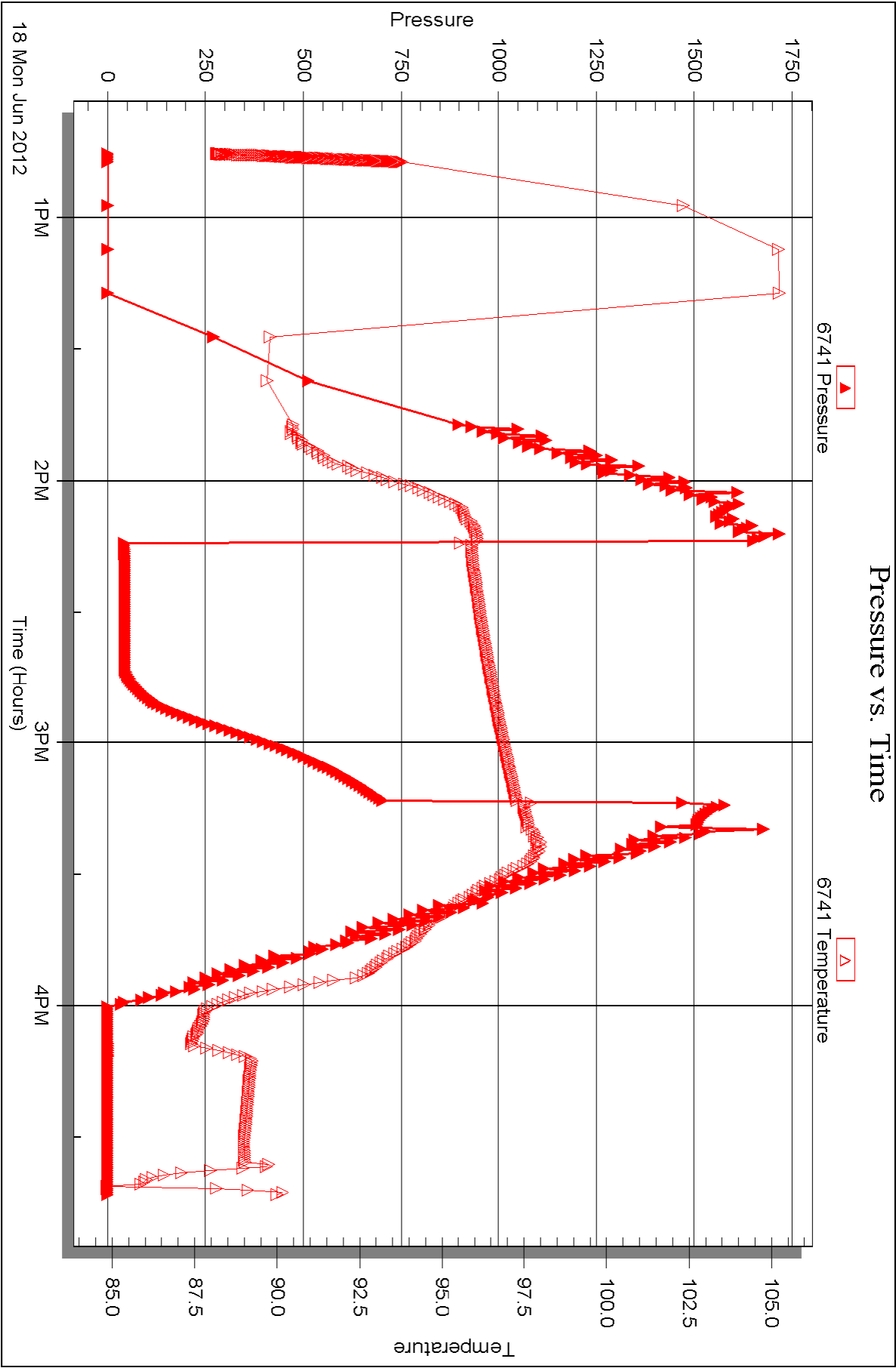


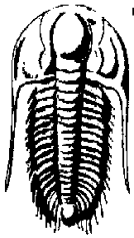
Serial #: 6741

Outside Hess Oil Co.

Kriley A-3

DST Test Number: 5





TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Hess Oil Co.
PO Box 1009
McPherson, Ks 67460
ATTN: Jamie Hess

29-7-17 Rooks, Ks

Kriley A-3

Job Ticket: 47403

DST#: 6

Test Start: 2012.06.18 @ 22:47:44

GENERAL INFORMATION:

Formation: **Arbuckle (5)**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:27:44

Time Test Ended: 02:46:44

Test Type: Conventional Bottom Hole (Reset)

Tester: Brian Fairbank

Unit No: 41

Interval: 3290.00 ft (KB) To 3310.00 ft (KB) (TVD)

Total Depth: 3310.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 1782.00 ft (KB)

1777.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6752 Inside

Press@RunDepth: 24.02 psig @ 3292.00 ft (KB)

Start Date: 2012.06.18

End Date:

2012.06.19

Start Time: 22:47:45

End Time:

02:46:44

Capacity: 8000.00 psig

Last Calib.: 2012.06.19

Time On Btm: 2012.06.19 @ 00:26:14

Time Off Btm: 2012.06.19 @ 01:30:14

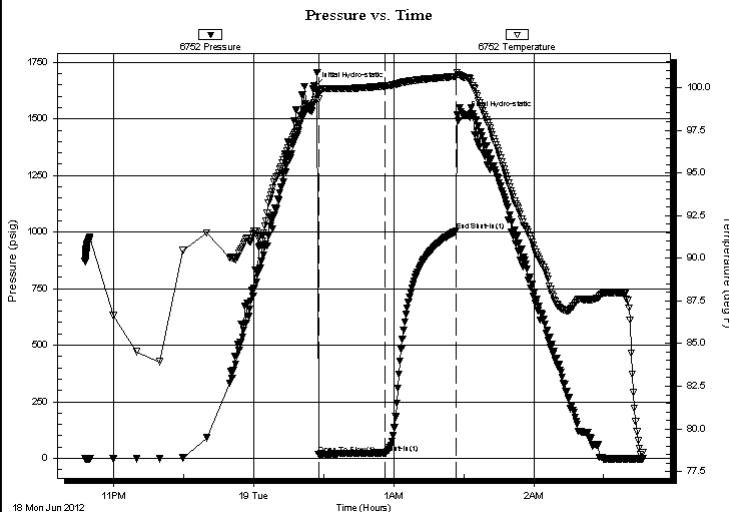
TEST COMMENT: IFP - 1/4" blow - died 2 min

ISI - no blow back

TIME - 30-30

PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1642.51	99.31	Initial Hydro-static
2	18.31	99.31	Open To Flow (1)
30	24.02	100.09	Shut-In(1)
61	1003.77	100.65	End Shut-In(1)
64	1516.20	100.59	Final Hydro-static



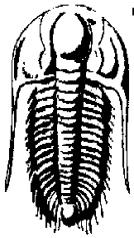
Recovery

Length (ft)	Description	Volume (bbl)
5.00	SOCM 5%O, 95%M	0.02

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

Hess Oil Co.
PO Box 1009
McPherson, Ks 67460
ATTN: Jamie Hess

29-7-17 Rooks, Ks

Kriley A-3

Job Ticket: 47403

DST#: 6

Test Start: 2012.06.18 @ 22:47:44

GENERAL INFORMATION:

Formation: **Arbuckle (5)**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:27:44

Time Test Ended: 02:46:44

Test Type: Conventional Bottom Hole (Reset)

Tester: Brian Fairbank

Unit No: 41

Interval: 3290.00 ft (KB) To 3310.00 ft (KB) (TVD)

Reference Elevations: 1782.00 ft (KB)

Total Depth: 3310.00 ft (KB) (TVD)

1777.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 6741 Outside

Press@RunDepth: psig @ 3292.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.06.18

End Date:

2012.06.19

Last Calib.:

2012.06.19

Start Time: 22:47:34

End Time:

02:46:33

Time On Btm:

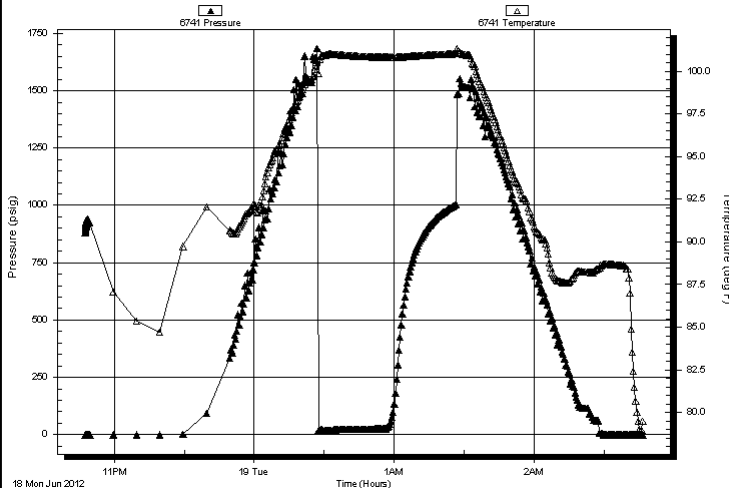
Time Off Btm:

TEST COMMENT: IFP - 1/4" blow - died 2 min

ISI - no blow back

TIME - 30-30

Pressure vs. Time



PRESSURE SUMMARY

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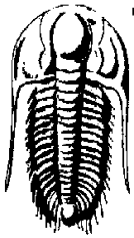
Recovery

Length (ft)	Description	Volume (bbl)
5.00	SOCM 5%O, 95%M	0.02

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

FLUID SUMMARY

Hess Oil Co.
PO Box 1009
McPherson, Ks 67460
ATTN: Jamie Hess

29-7-17 Rooks, Ks
Kriley A-3
Job Ticket: 47403 **DST#: 6**
Test Start: 2012.06.18 @ 22:47:44

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 49.00 sec/qt
Water Loss: 7.18 in³
Resistivity: ohm.m
Salinity: 2300.00 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: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	SOCM 5%O, 95%M	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

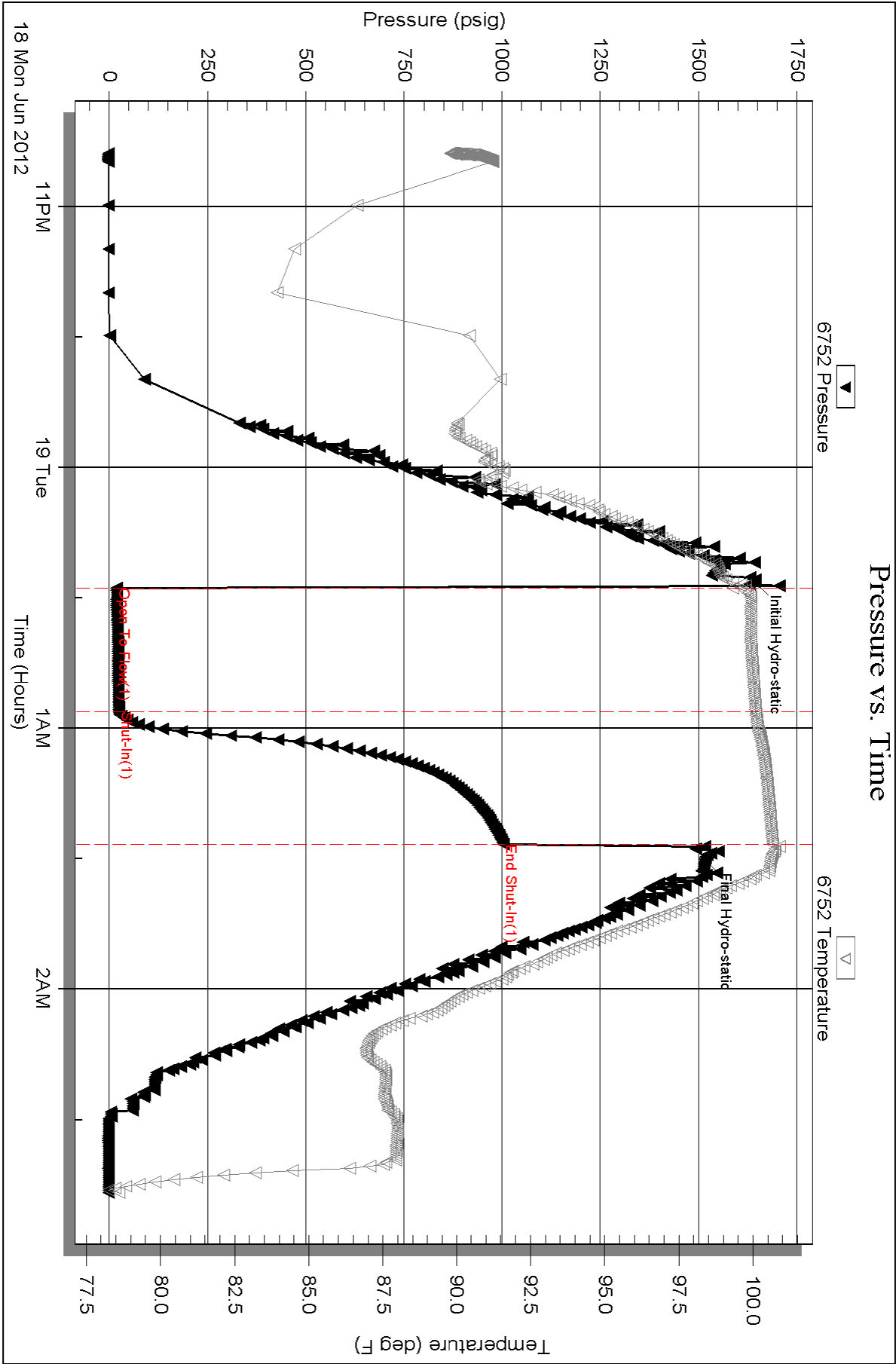
Serial #: 6752

Inside

Hess Oil Co.

Kriley A-3

DST Test Number: 6

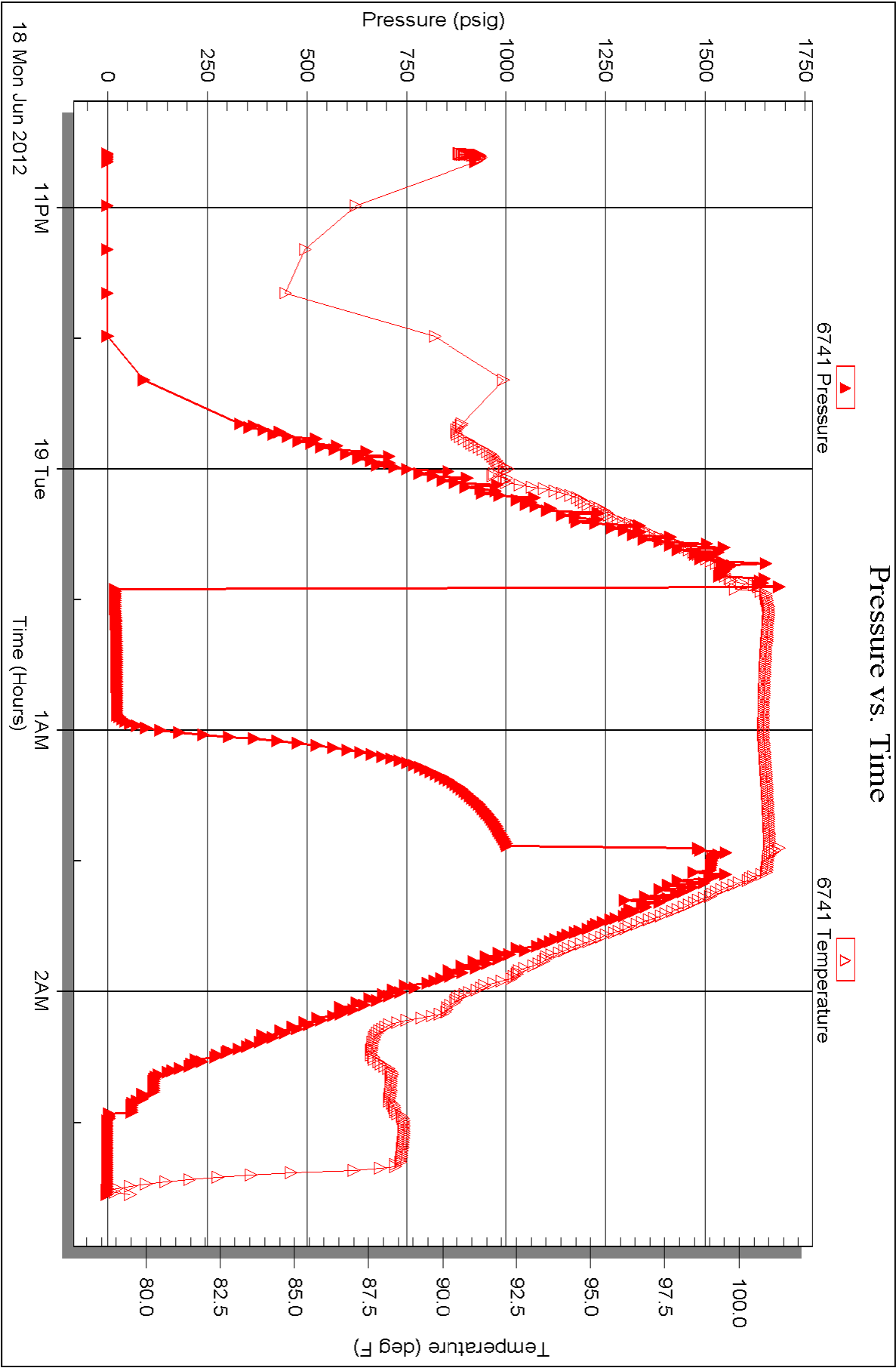


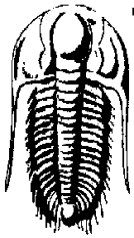
Serial #: 6741

Outside Hess Oil Co.

Kriley A-3

DST Test Number: 6





TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Hess Oil Co.
PO Box 1009
McPherson, Ks 67460
ATTN: Jamie Hess

29-7-17 Rooks, Ks

Kriley A-3

Job Ticket: 47404

DST#: 7

Test Start: 2012.06.19 @ 06:52:20

GENERAL INFORMATION:

Formation: **Arbuckle (6)**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:37:50

Time Test Ended: 12:47:50

Test Type: Conventional Bottom Hole (Reset)

Tester: Brian Fairbank

Unit No: 41

Interval: **3290.00 ft (KB) To 3320.00 ft (KB) (TVD)**

Reference Elevations: 1782.00 ft (KB)

Total Depth: 3320.00 ft (KB) (TVD)

1777.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 6752 Inside

Press@RunDepth: 331.18 psig @ 3292.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.06.19

End Date:

2012.06.19

Last Calib.: 2012.06.19

Start Time: 06:52:21

End Time:

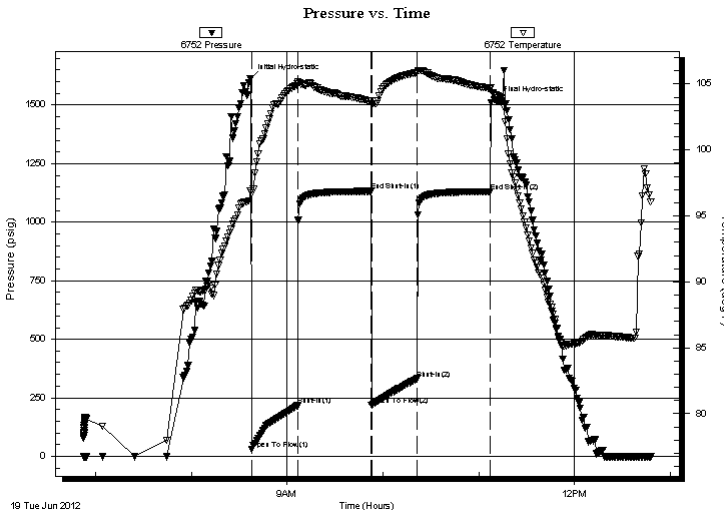
12:47:50

Time On Btm: 2012.06.19 @ 08:36:50

Time Off Btm: 2012.06.19 @ 11:10:50

TEST COMMENT: IFP - BOB 7 min
ISI - no blow back
FFP - BOB 9 min
FSI - no blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1614.06	96.86	Initial Hydro-static
1	30.55	96.72	Open To Flow (1)
30	216.83	105.00	Shut-In(1)
76	1132.52	103.73	End Shut-In(1)
76	218.40	103.44	Open To Flow (2)
105	331.18	105.86	Shut-In(2)
151	1131.45	104.66	End Shut-In(2)
154	1517.61	104.16	Final Hydro-static

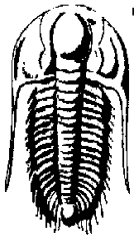
Recovery

Length (ft)	Description	Volume (bbl)
405.00	MW 90%W, 10%M	3.48
185.00	WM 40%W, 60%M	2.60
107.00	WCM 10%W, 90%M	1.50
3.00	SOCM 5%O, 95%M	0.04

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

FLUID SUMMARY

Hess Oil Co.

29-7-17 Rooks, Ks

PO Box 1009
McPherson, Ks 67460

Kriley A-3

Job Ticket: 47404

DST#: 7

ATTN: Jamie Hess

Test Start: 2012.06.19 @ 06:52:20

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:

32000 ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.80 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2300.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
405.00	MW 90%W, 10%M	3.477
185.00	WM 40%W, 60%M	2.595
107.00	WCM 10%W, 90%M	1.501
3.00	SOCM 5%O, 95%M	0.042

Total Length: 700.00 ft

Total Volume: 7.615 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 6752

Inside

Hess Oil Co.

Kriley A-3

DST Test Number: 7

Pressure vs. Time

