

KANSAS CORPORATION COMMISSION 1087654
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 # 5663
Name: Hess Oil Company
Address 1: PO BOX 1009
Address 2:
City: MCPHERSON State: KS Zip: 67460 + 1009
Contact Person: Bryan Hess
Phone: (620) 241-4640
CONTRACTOR: License # 4958
Name: Mallard, J. V., Inc.
Wellsite Geologist: James C. Hess
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 #:

6/11/2012	6/19/2012	6/19/2012
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-163-24047-00-00
Spot Description:
NE SW NW NW Sec. 29 Twp. 7 S. R. 17 ☐ East ☒ West
800 Feet from ☒ North / ☐ South Line of Section
400 Feet from ☐ East / ☒ West Line of Section
Footages Calculated from Nearest Outside Section Corner:
☐ NE ☒ NW ☐ SE ☐ SW
County: Rooks
Lease Name: Kriley 'A' Well #: 3
Field Name:
Producing Formation: na
Elevation: Ground: 1777 Kelly Bushing: 1782
Total Depth: 3320 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 1200 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: 0 ppm Fluid volume: 0 bbls
Dewatering method used: Evaporated
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: Deanna Gerriso Date: 07/26/2012



1087654

Operator Name: Hess Oil Company Lease Name: Kriley 'A' Well #: 3
 Sec. 29 Twp. 7 S. R. 17 ☐ East ☒ West County: Rooks

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 <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Name</th> <th style="text-align: left;">Top</th> <th style="text-align: left;">Datum</th> </tr> </thead> <tbody> <tr> <td>Anhydrite</td> <td>1195</td> <td>+587</td> </tr> <tr> <td>Base Anhydrite</td> <td>1232</td> <td>+550</td> </tr> <tr> <td>Heebner</td> <td>2918</td> <td>-1136</td> </tr> <tr> <td>Lansing</td> <td>2962</td> <td>-1180</td> </tr> <tr> <td>Arbuckle</td> <td>3252</td> <td>-1470</td> </tr> <tr> <td>RTD</td> <td>3320</td> <td>-1538</td> </tr> </tbody> </table>	Name	Top	Datum	Anhydrite	1195	+587	Base Anhydrite	1232	+550	Heebner	2918	-1136	Lansing	2962	-1180	Arbuckle	3252	-1470	RTD	3320	-1538
Name	Top	Datum																				
Anhydrite	1195	+587																				
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Lansing	2962	-1180																				
Arbuckle	3252	-1470																				
RTD	3320	-1538																				

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
Conductor	17.5	13.375	48	120	Class A	150	2% gel, 3% cc
Surface	12.25	8.625	24	1200	60/40 pozmix	350	6% gel, 3% cc
0	0	0	0	0	Class A	200	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 <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: ☐ Open Hole ☐ Perf. ☐ Dually Comp. ☐ Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i> ☐ Other (Specify) _____	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.

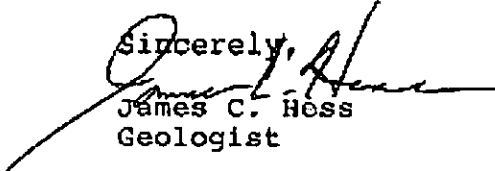
Recovered: 3' Heavy Oil Cut Mud
107' Water Cut Mud
590' Mud Cut SW

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 COMPANYLEASE KRILEY * A-3FIELD RIFEELOCATION 800' FNL, 400' FWLSEC 29 TWSP 7 S RGE 17 WCOUNTY ROOKS STATE KANSAS

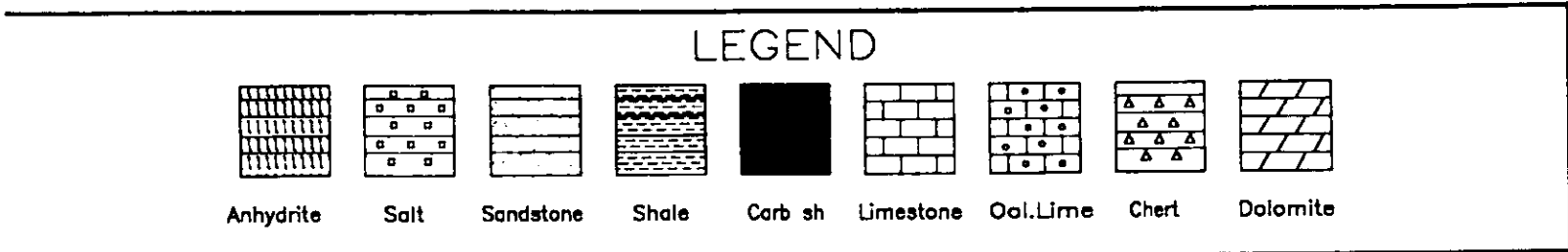
ELEVATIONS

KB 1782'DF 1780'GL 1777'Measurements Are All
From KBCONTRACTOR MALLARD J.V.SPUD 6-11-12 COMP 6-19-12RTD 3320 LTD noneMUD UP 250' TYPE MUD CHEMICALCASING
SURFACE 80' COND. none
PRODUCTION noneELECTRICAL SURVEYS
~~DUAL INDUCTION,~~
~~POROSITY, & MICRO.~~SAMPLES SAVED FROM 2900' TO TDDRILLING TIME KEPT FROM 2800' TO TDSAMPLES EXAMINED FROM 2900' TO TDGEOLOGICAL SUPERVISION FROM 2730' TO TDGEOLOGIST ON WELL JAMES C. HESS

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

17 W			
+			
	29		

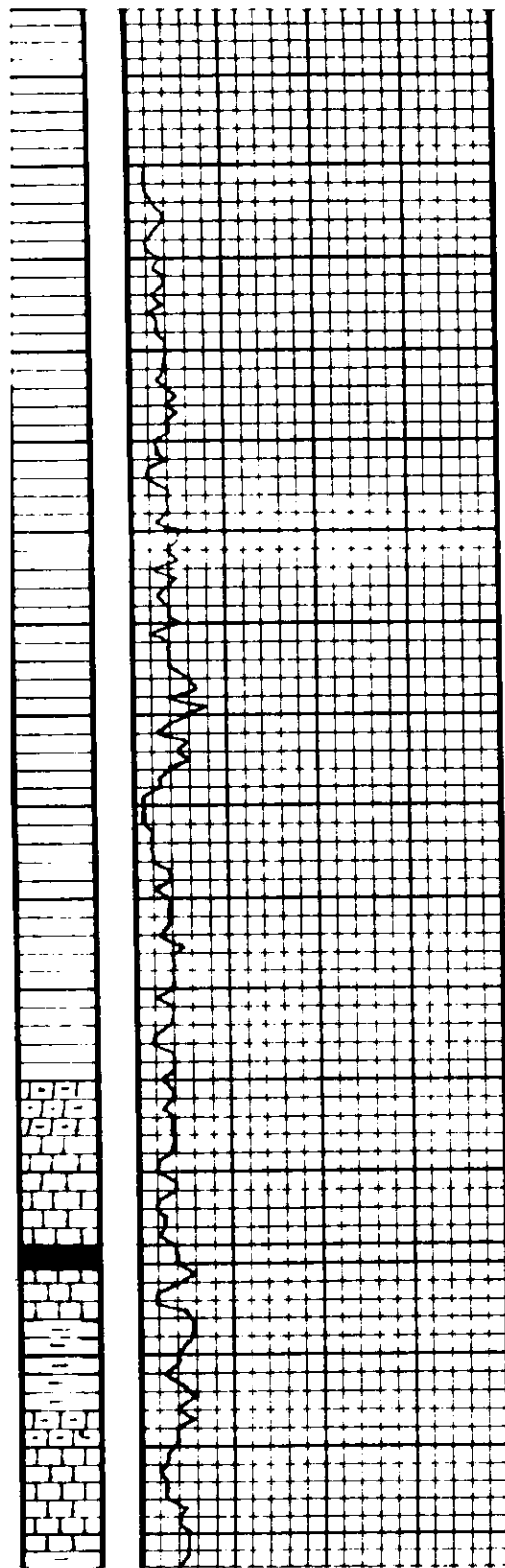
7 S

[illegible]

SCALE " = 100'

SCALE " = 100'

Lithology	Drilling time in minutes	DEPTH	Sample Description	Remarks, drill stem tests, etc.
	0 5 10 15 20	1160		
		80		
		1200		ANHYDRITE 1195 (+587)
				B-5/8" at 1200' KB
		20		
				BASE ANHYDRITE 1232
		40		(+550)



2800

20

40

60

80

2900

Lim. for up to 1/2 cherty lim
w/ Fe's w/ cherty lim
Few green - Rd. sh.

AA w/ less sh's No S
No show

20

Lim. for up to 1/2 cherty lim
w/ Fe's w/ cherty lim
Some green sh's

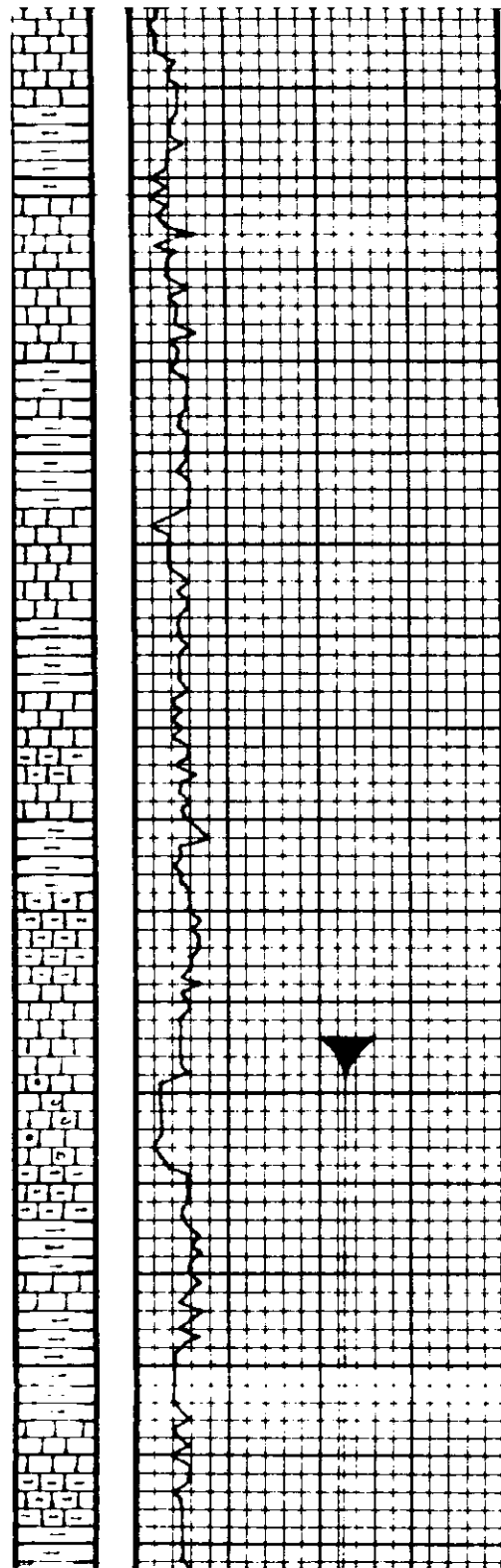
AA w/ more sh's No S
No show

40

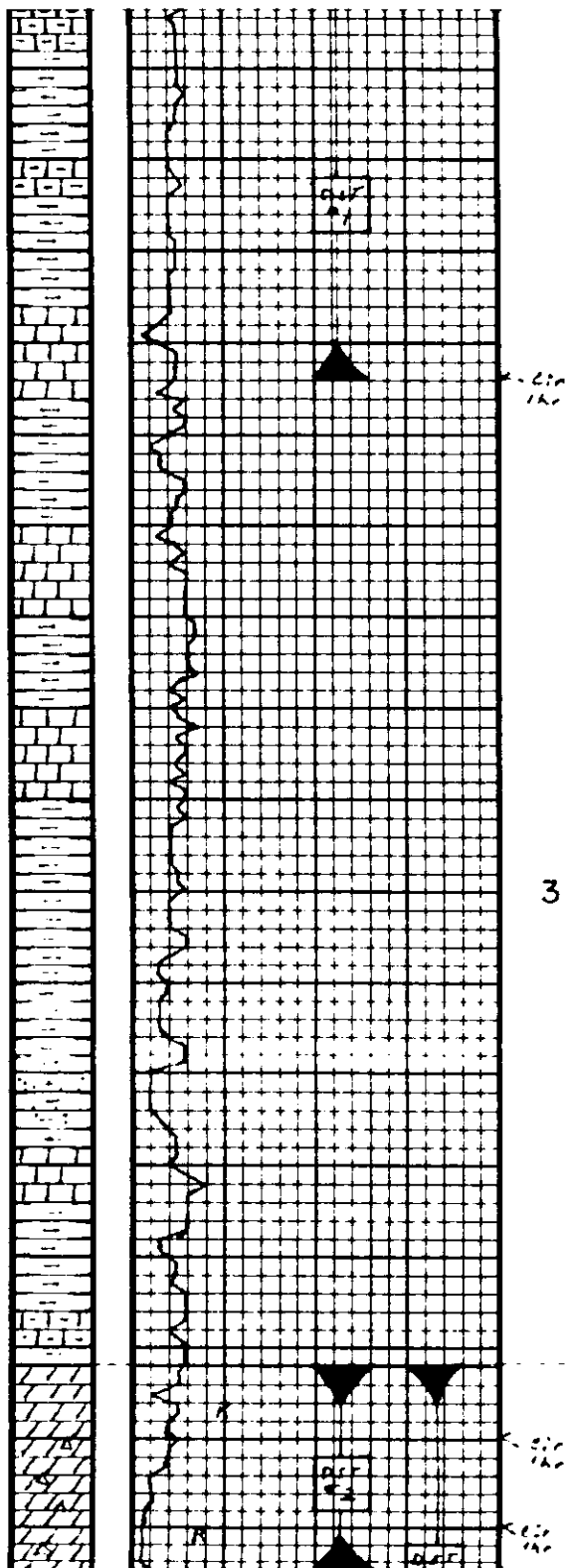
Lim. for up to 1/2 cherty lim
w/ Fe's w/ cherty lim
Some green sh's No show

AA w/ more green sh's

HEEBNER 2918 (-1136)



	WT. 10m VP. 10m DS 10m H. 10m VP. 10m DS 10m Same Green sh's	
60	AA 10m VP. 10m DS 10m NO 2 NO SHOW	LANSING 2962 (-1180)
	WT. 10m VP. 10m DS 10m H. 10m VP. 10m DS 10m Same Green sh's	
80	AA 10m VP. 10m DS 10m NO 2 NO SHOW	
	WT. 10m VP. 10m DS 10m H. 10m VP. 10m DS 10m Same Green sh's	
3000	AA 10m VP. 10m DS 10m NO 2 NO SHOW	
	WT. 10m VP. 10m DS 10m H. 10m VP. 10m DS 10m Same Green sh's	
20	AA 10m VP. 10m DS 10m NO 2 NO SHOW	
	WT. 10m VP. 10m DS 10m H. 10m VP. 10m DS 10m Same Green sh's	
40	AA 10m VP. 10m DS 10m NO 2 NO SHOW	
	WT. 10m VP. 10m DS 10m H. 10m VP. 10m DS 10m Same Green sh's	
60	AA 10m VP. 10m DS 10m NO 2 NO SHOW	DST *1 3054 - 3144' KB 90' ANCHOR
	WT. 10m VP. 10m DS 10m H. 10m VP. 10m DS 10m Same Green sh's	TIMES: 45-45-45-45
80	AA 10m VP. 10m DS 10m NO 2 NO SHOW	RECOVERED: 19' 100M 240' mud
	WT. 10m VP. 10m DS 10m H. 10m VP. 10m DS 10m Same Green sh's	PRESSURES IN 1966
3100	AA 10m VP. 10m DS 10m NO 2 NO SHOW	1943
	WT. 10m VP. 10m DS 10m H. 10m VP. 10m DS 10m Same Green sh's	IF 46 - 129
	AA 10m VP. 10m DS 10m NO 2 NO SHOW	128 - 159
	WT. 10m VP. 10m DS 10m H. 10m VP. 10m DS 10m Same Green sh's	401

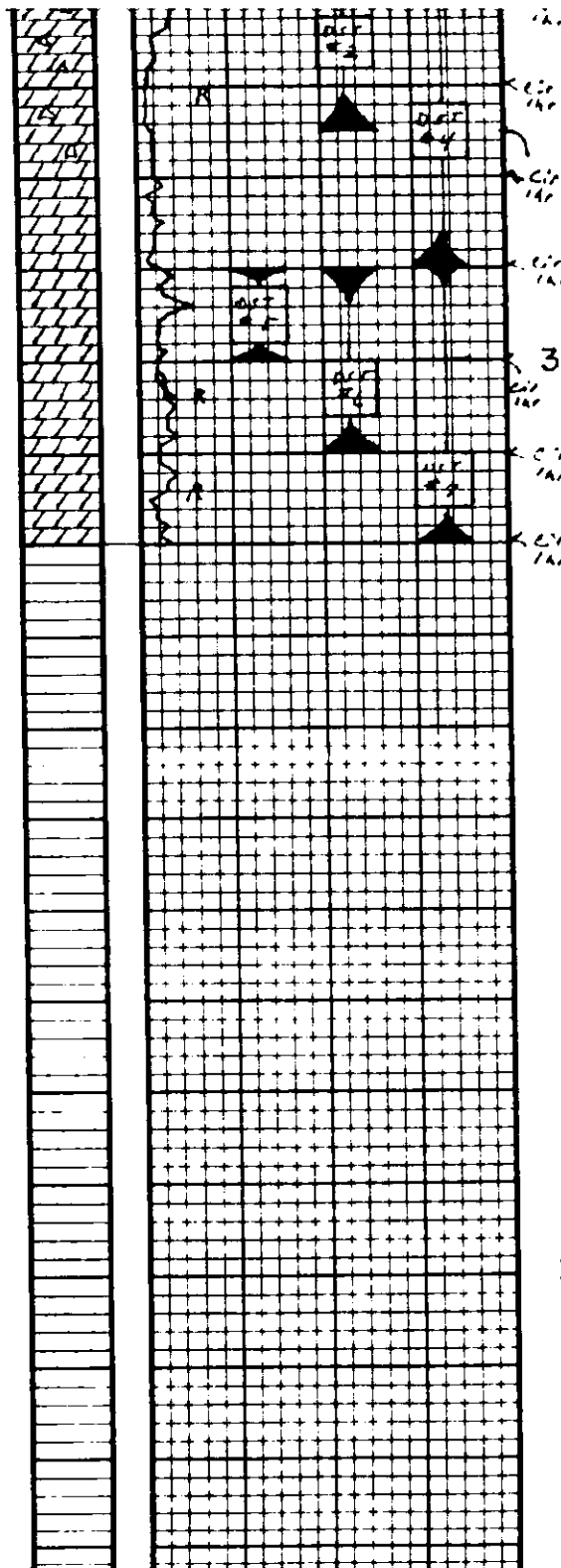


20	WT - Tan V. Pale Ds. Sl. Chalky Lm W. Pale Lm Chalky Lm Some Green Sh's
40	Weak Fair show of Free oil in Lm Pale Ds Lm No other Fair show of Free oil in Lm Pale Lm No other
60	WT V. Pale Ds Lm W. Pale Lm Chalky Lm Some Green & Red Sh's
80	AA W. More Sh's No P No show
3200	WT - Tan V. Pale Ds Lm W. Pale Lm Chalky Lm Some Green & Red Sh's
20	AA W. More Sh's No P No show
40	WT - Tan V. Pale Ds Lm W. Pale Lm Chalky Lm Some Green & Red Sh's
60	AA W. More Red & Green Sh's No P No show
	Sl. show of Free oil in WT - Tan V. Pale Lm W. Pale Lm No other
	WT - Tan V. Pale Ds Lm W. Pale Lm Chalky Lm Some Green & Red Sh's
	Red Sandstone and Red Sandstone Some WT - Tan Pale Lm Some Red & Green Sh's No show
	WT - Tan V. Pale Ds Lm W. Pale Lm Chalky Lm Some Red & Green Sh's
	AA W. More Red & Green Sh's No P No show
	Sl. show of Free oil in WT - Tan V. Pale Lm W. Pale Lm No other
	WT - Tan V. Pale Ds Lm W. Pale Lm Chalky Lm Some Green & Red Sh's
	Sl. show of Free oil in WT - Tan V. Pale Lm W. Pale Lm No other
	WT - Tan V. Pale Ds Lm W. Pale Lm Chalky Lm Some Green & Red Sh's
	AA W. More Red & Green Sh's No P No show
	Sl. show of Free oil in WT - Tan V. Pale Lm W. Pale Lm No other

ARBUCKLE 3252 (-1470)

DST * 2
 3252 - 3275' KB

KE 133-159
 FSEP 401
 FSEP 350



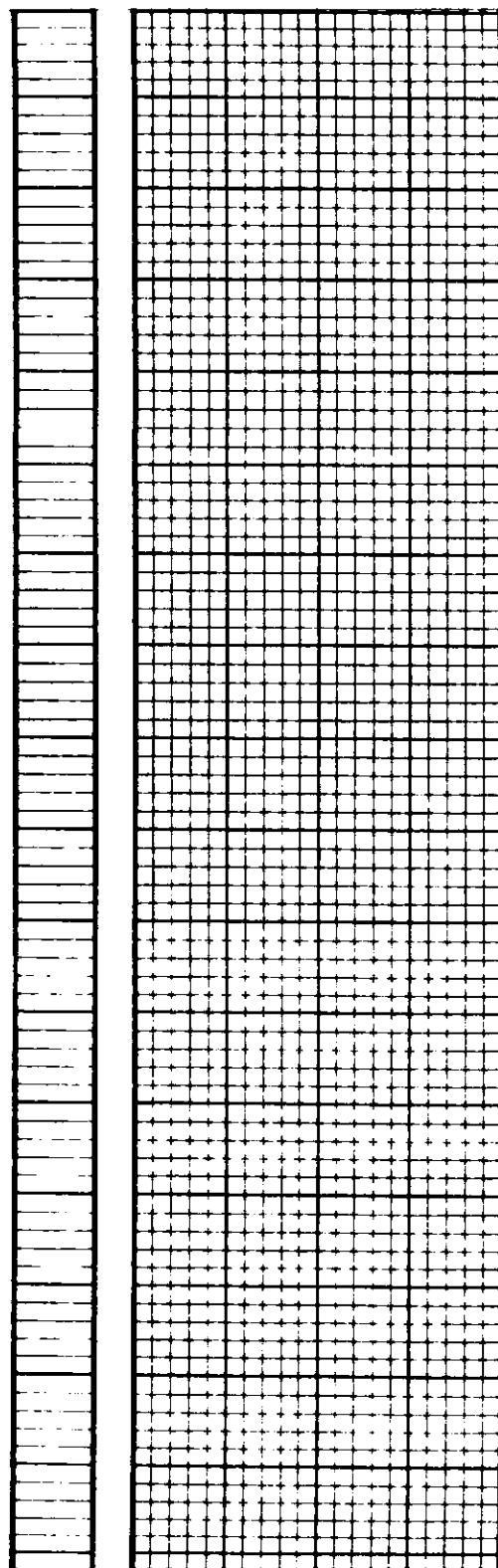
Notes: George Red A's. show
 ST. weak shows of free oil
 14. At Fair D's. No oil
 Fair show of free oil in WT-Tan
 Fair OS D's. weak show
 Fair D

80
 Good to great show of free oil
 in WT-Tan Formale Guls.
 Fair interm D. Fair show

3300
 Good show of free oil in Com-Tan
 Fair D's. Fair interm w/very D
 No oil

20
 Good show of free oil in Com-
 Tan F-male OS D's.
 Fair - Fair D. No oil
 Fair - good show in Com-Tan Formale
 OS D's. Fair D. No oil
 (Fair's look much like 2000-1000)

	DST #2
	3252-3275' KB
	23' ANCHOR
	TIMES:
	30-30-0-0
	RECOVERED:
	3' OCM
	PRESSURES:
	IH 1594"
	PH 1537"
	IF 14-17"
	FR ---
	ISIP 59"
	FSIP ---
RTD	
3320	
(-1538)	
	DST #3
	3260-3290' KB
	30' ANCHOR
	- MISRUN -
	DST #4
	3252-3290' KB
	38' ANCHOR
	TIMES:
	30-30-0-0
	RECOVERED:
	3' OCM (JAFIL)
	PRESSURES:
	IH 1647"
	PH 1574"
	IF 12-32"
	FR ---
	ISIP 507"
	FSIP ---



20		IF 11-31# FF ... ISIP 307# FSIP ...
40		
		DST #5
		3290 - 3300' KB 10' ANCHOR
60		TIMES: 30-30-0-0
		RECOVERED: 65' m 4/11 Specks
80		PRESSURES: IH 1662# FH 1537# IF 41-43 FF ... ISIP 701# FSIP ...
3500		
		DST #6
		3290 - 3310' KB 20' ANCHOR
		TIMES: 30-30-0-0
		RECOVERED: 5' slem
		PRESSURES: IH 1643# FH 1516# IF 18-24# FF ... ISIP 1004# FSIP ...
		DST #7

[illegible]

	DST * 7
	3290 - 3320' KB 30' ANCHOR
	TIMES: 30-45-30-45
	RECOVERED: <i>J'OLM</i> 700' MGSW
	PRESSURES:
	<i>IN 1614"</i> <i>FN 1518"</i>
	<i>IF 31-217"</i> <i>FM 218-331"</i>
	<i>XSEP 1133"</i> <i>RSEP 1131"</i>

ALLIED OIL & GAS SERVICES, LLC 056141

REMIT TO P.O. BOX 31
RUSSELL, KANSAS 67663

SERVICE POINT
Russell

DATE <u>6-11-12</u>	SEC <u>29</u>	TWP <u>7S</u>	RANGE <u>1E</u>	CALLED OUT	ON LOCATION	JOB START <u>12:30</u>	JOB FINISH <u>11:00</u>
FARE <u>Kesley</u>	WELL <u>A-3</u>	LOCATION <u>Station S to River Bridge</u>			COUNTY <u>Rooks</u>	STATE <u>KS</u>	
OLD OR NEW (Circle one)		<u>2 E. 13 & E. 14th</u>					

CONTRACTOR Mallard & L
TYPE OF JOB Cementing
HOLE SIZE 17 1/2 T.D. 120
CASING SIZE 13 3/8 DEPTH 120
TUBING SIZE DEPTH
DRILL PIPE DEPTH
TUGL DEPTH
PRES. MAX MINIMUM
WHS. LINE SHOE JOINT 15
CEMENT LEFT IN CSG. 15
PERFS.
DISPLACEMENT 110's 60

OWNER
CEMENT
AMOUNT ORDERED 130' 5% Class A
32.00 28.00

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>3</u>	@	<u>58.25</u>	<u>174.75</u>
ASC		@		
HANDLING	<u>125</u>	@	<u>3.00</u>	<u>375.00</u>
MILEAGE	<u>8.14</u>	@	<u>.11</u>	<u>.89562</u>
TOTAL				<u>2706.27</u>

EQUIPMENT
PUMP TRUCK # 409 CE/MPTR John McLean
BULK TRUCK # 410 HELPER Tommy Phommavong
BULK TRUCK # DRIVER Robert Kachovich
BULK TRUCK # DRIVER

REMARKS:

On 3rd 13 3/8 4 1/2" pipe
with 130' 5% Class A 32.00 28.00
Displace 16.5 bbl
shot well in
to cement 120' circulate to surface
Thanks!

CHARGE TO: Arco Oil Corp.
STREET
CITY STATE ZIP

SERVICE

DEPTH OF JOB			<u>1125</u>
PUMP TRUCK CHARGE			
EXTRA FOOTAGE	@	<u>2.00</u>	<u>413.00</u>
MILEAGE	<u>69</u>	@	<u>4.00</u>
MANIFOLD	<u>69</u>	@	<u>3.00</u>
VOLG		@	<u>385.00</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 Sustina McDonald

SIGNATURE [Signature]

SALES TAX (if Any) 155.43
TOTAL CHARGES 5,485.87
DISCOUNT 1539.56 IF PAID IN 30 DAYS
Net 3921.81 BS 6-12

ALLIED OIL & GAS SERVICES, LLC 053626

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

SERVICE POINT:

Georgetown

DATE <u>6-13-12</u>	SEC. <u>29</u>	TWP. <u>22E</u>	RANGE <u>17W</u>	CALLED OUT	ON LOCATION	JOB START <u>8:30</u>	JOB FINISH <u>8:30</u>
LEASE <u>Kriley A</u>	WELL # <u>3</u>	LOCATION			COUNTY <u>Butts</u>	STATE <u>KS</u>	
OLD OR NEW (Circle one)			<u>grockmeyer 15 25' 14.5' 14.5' 14.5' 14.5'</u>				

CONTRACTOR Mallard #1

TYPE OF JOB Surface

HOLE SIZE 12 1/4 T.D.

CASING SIZE 6 5/8 DEPTH 1200

TUBING SIZE DEPTH

DRILL PIPE 4 1/2 DEPTH

TOOL DEPTH

PRES. MAX. MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG. 142.6

PERFS.

DISPLACEMENT 73,72 lbs. Freshwater

EQUIPMENT

OWNER

CEMENT

AMOUNT ORDERED 350 yd 60% class A 40% pozz 67 yd 3 yd 1/4 flt 200 yd class A 3 yd 27 yd

COMMON	200	@ 16.25	3250.00
POZMIX		@	
GEL	4	@ 21.25	85.00
CHLORIDE	18	@ 58.20	1047.60
ASC		@	
	350 yd 60/40 + 6%	@ 14.50	5075.00
	41 yd 200	@ 2.70	234.00
		@	
		@	
		@	
		@	
		@	
		@	
HANDLING	581.81	@ 2.10	1221.80
MILEAGE	25.22 x 40x	2.35	2370.00
TOTAL			13,284.00

PUMP TRUCK CEMENTER Jason L.

366 HELPER Jan P

BULK TRUCK

482/241 DRIVER Kevin W

BULK TRUCK

378 DRIVER Brandon

REMARKS:

See Cement Log

Plug Down 9:15

CHARGE TO: Hess Oil company

STREET

CITY STATE ZIP

To: Allied Oil & Gas Services, LLC.

You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME X Kyle Stout

SIGNATURE X Kyle Stout

Thank you!!

SERVICE

DEPTH OF JOB	1200		
PUMP TRUCK CHARGE		1125.00	
EXTRA FOOTAGE	700	@ .95	665.00
MILEAGE	HUM 40	@ 7.00	280.00
MANIFOLD		@	
	HUM 40	@ 4.00	160.00
		@	

TOTAL 2230.00

PLUG & FLOAT EQUIPMENT

Buffer Plug	@ 112.00	112.00
Rubber Plug	@ 112.00	112.00
Basket	@ 478.00	478.00
Isentrapizers	@ 64.00	128.00
	@	
TOTAL		830.00

SALES TAX (If Any)

TOTAL CHARGES 11,344.00

DISCOUNT 25% 4,086.00

PAID IN 30 DAYS 12,258.00

ALLIED OIL & GAS SERVICES, LLC 056148

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

SERVICE POINT
B-2241

DATE <u>6-30-10</u>	SEC <u>29</u>	TWP <u>7S</u>	RANGE <u>17W</u>	WELL # <u>17W</u>	LOCATION <u>Sheldon Is 2nd 4S</u>	JOB START <u>7:30</u>	JOB FINISH <u>2:00</u>
LEASE <u>Krizey</u>	WELL # <u>A-3</u>	LOCATION <u>Sheldon Is 2nd 4S</u>	COUNTY <u>Rock</u>	STATE <u>KS</u>			
O.I.D. OR NEW (Check one)		<u>NE Nite</u>					

CONTRACTOR Mallard

TYPE OF JOB R-Plug

HOLE SIZE 7 1/8 T.D.

CASING SIZE 8 1/2 DEPTH 121

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE STOP POINT

CEMENT LEFT IN CSG.

PERFS.

DISPLACEMENT

OWNER

CEMENT AMOUNT ORDERED 245 1040

COMMON 149 @ 16.25 2421.25

POZUMIX 96 @ 2.10 2016.00

GEL 8 @ 21.25 170.00

CHLORIDE

ASC

EQUIPMENT

PUMP TRUCK CEMENTER Yell Milanich

409 HELPER Tom Phammatel

BULK TRUCK

409 DRIVER Robert Yakubovich

BULK TRUCK

DRIVER

NEW 2 10% 2.70 135.00

HANDLING 2.00 @ 2.20 4.40

MILEAGE 10,710 @ 11 117.81

TOTAL 5274.10

REMARKS:

Loaded up at 3:23 PM mix 7 1/8 cement
Pumped 4:30 min mud, pulled to 1213
mixed 25% cement, pulled 11:00 AM, pulled to
6:52 AM, pulled, mixed 100% cement line, pulled to
1:00 PM, pulled, mixed 100% cement line, pulled to
4:00 PM, pulled, mixed 100% cement line, pulled to
mixed 30% cement, mixed 15% cement, mixed 15% cement

SERVICE

DEPTH OF JOB

PUMP TRUCK CHARGE 1250.00

EXTRA FOOTAGE

MILEAGE 10,710 @ 2.20 2354.20

MANIFOLD

AP 100 42 @ 4.00 1680.00

AP 100 2 @ 4.00 800.00

TOTAL 2512.00

CHARGE TO: Acad Oil Corp

STREET

CITY STATE ZIP

PLUG & FLOAT EQUIPMENT

1/2 Weston Plug @ 69.00

TOTAL 69.00

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 Frank Symank

SIGNATURE Frank Symank

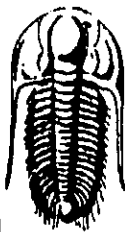
SALLES TAX (if Any) 495.81

TOTAL CHARGES 7,870.10

DISCOUNT 20/50 506.60 IF PAID IN 30 DAYS

5804.05 85 6-21

before tax



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

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

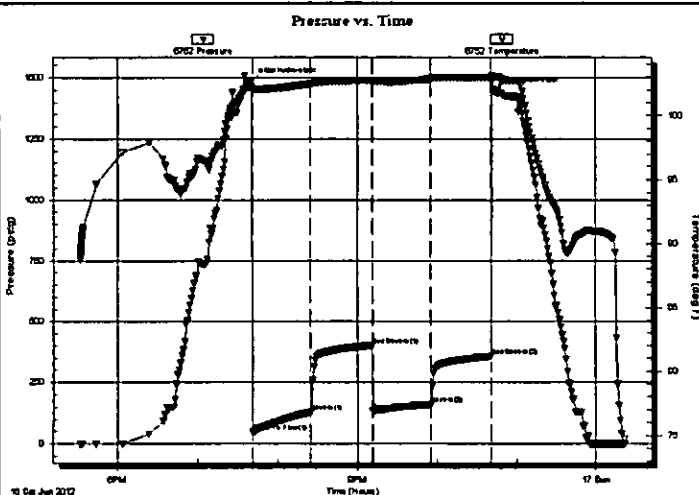
29-7-17 Rooks, Ks
Kriley A-3
Job Ticket: 47148 **DST#: 1**
Test Start: 2012.06.16 @ 17:32:00

GENERAL INFORMATION:

Formation: **BKC**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 19:41:30
Time Test Ended: 00:22:00
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 GRV/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

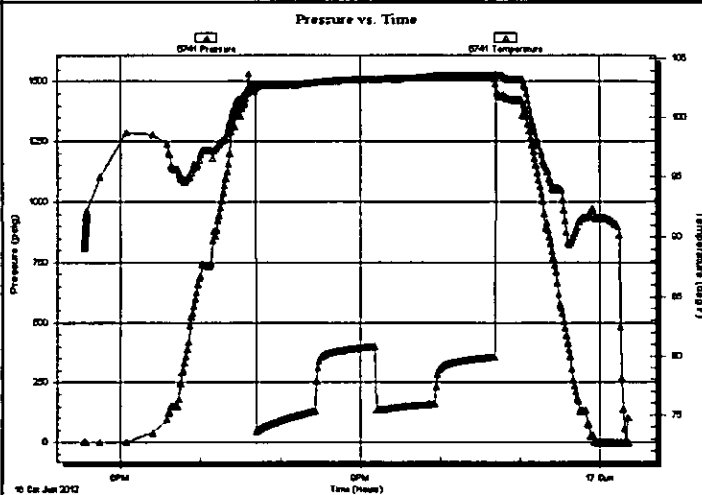
29-7-17 Rooks, Ks
Kriley A-3
Job Ticket: 47148 DST#: 1
Test Start: 2012.06.16 @ 17:32:00

GENERAL INFORMATION:

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

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

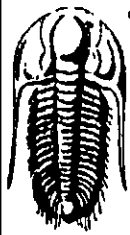
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
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Recovery

Length (ft)	Description	Volume (bbl)
240.00	DRL MUD 100%	1.18
19.00	V SOCM 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:

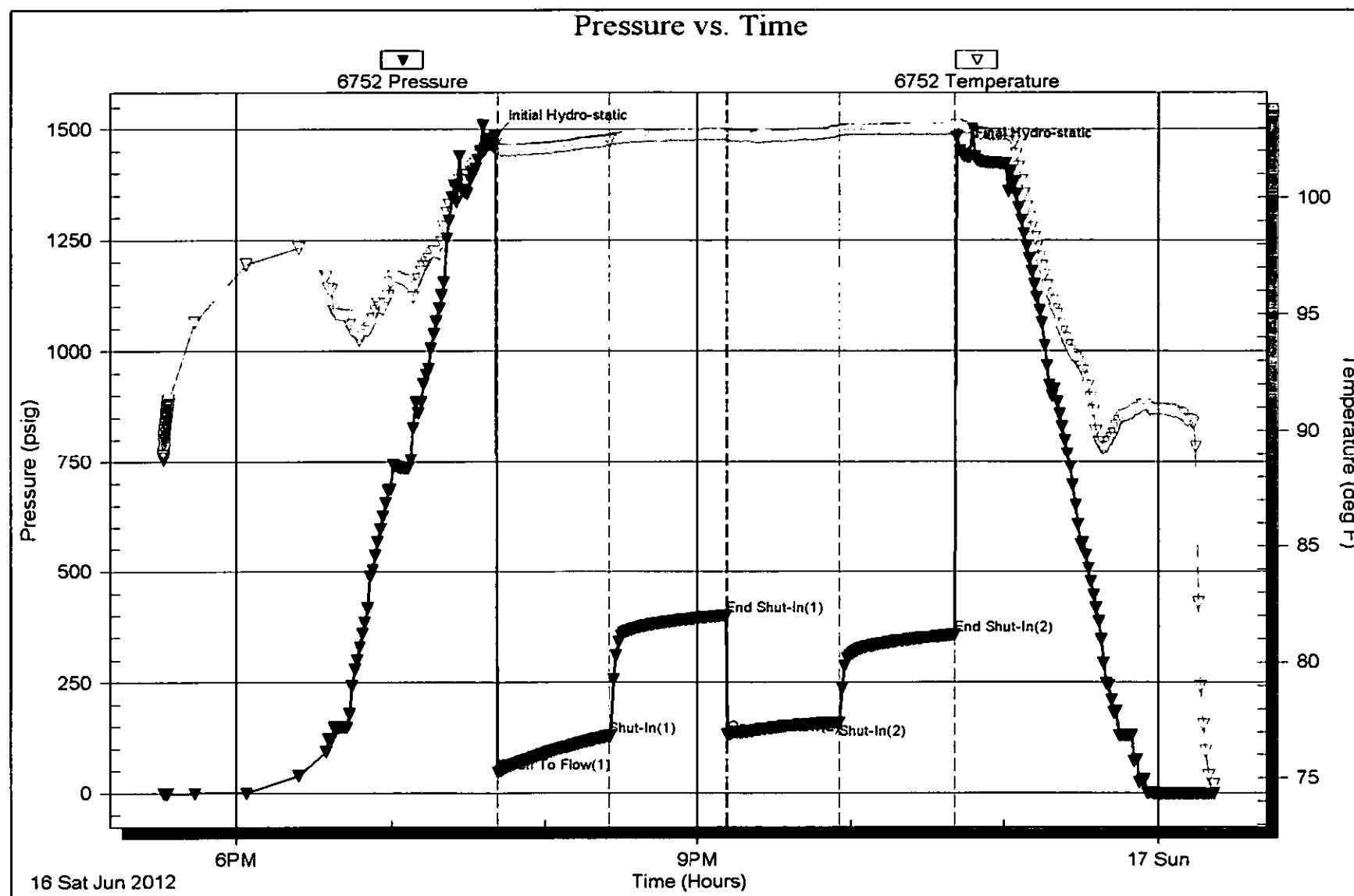
Recovery Comments:

Serial #: 6752

Inside Hess Oil Co.

Kriley A-3

DST Test Number: 1

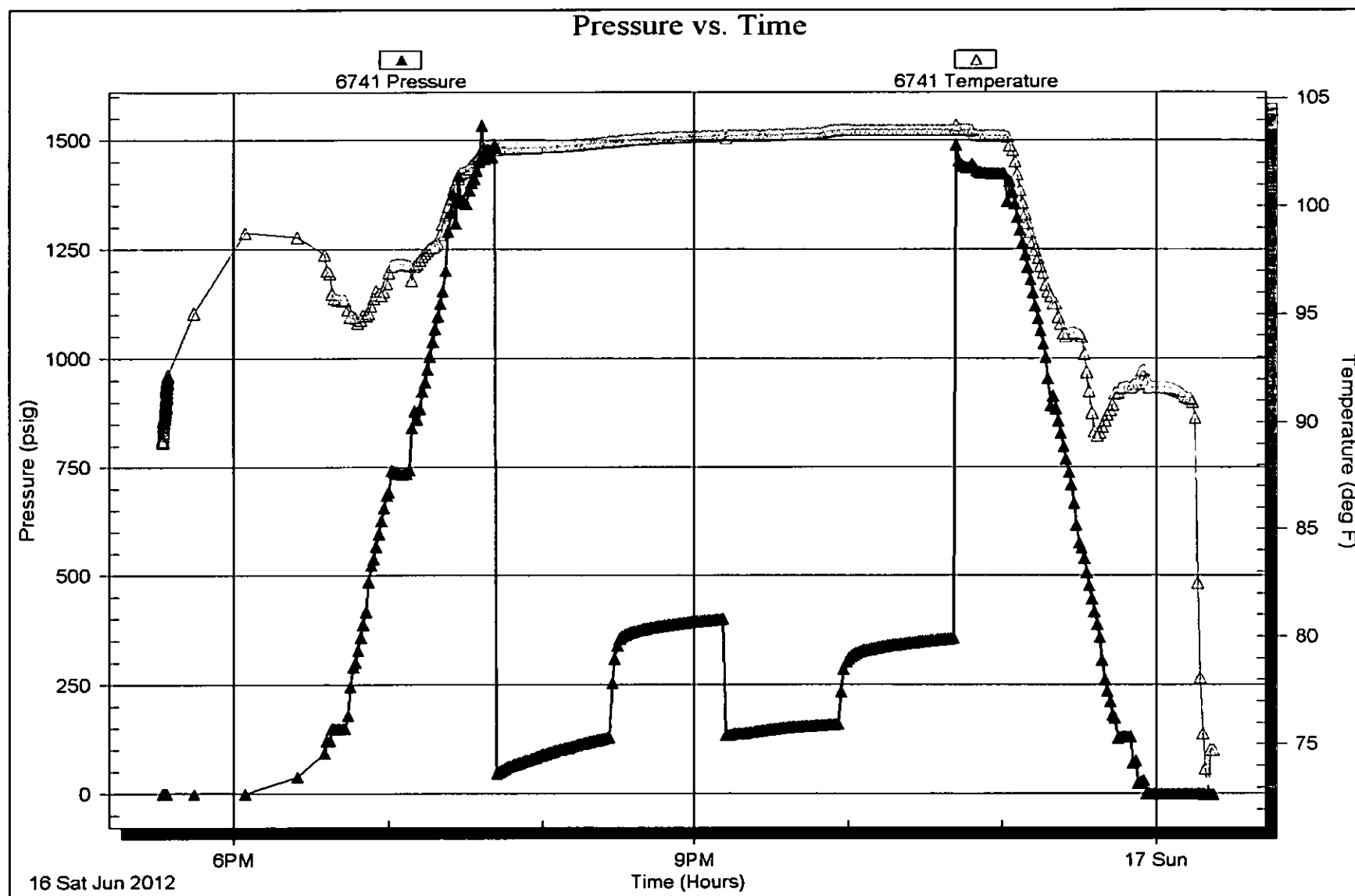


Serial #: 6741

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

Capacity: 8000.00 psig

Last Calib.: 2012.06.17

Start Time: 12:06:38

End Time:

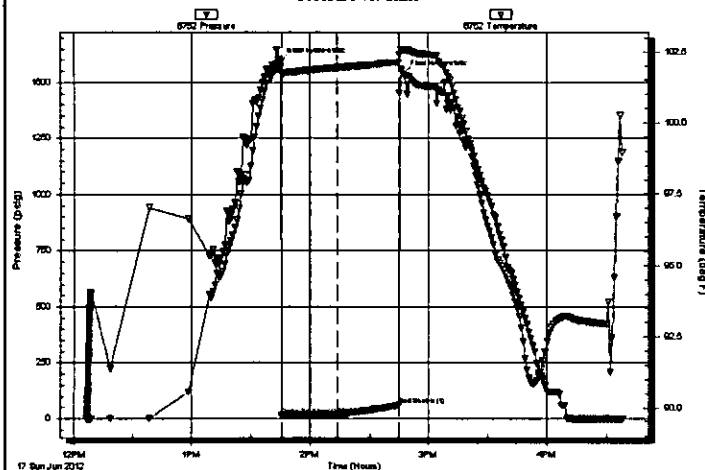
16:38:07

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 vs. Time



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

* Recovery from multiple tests

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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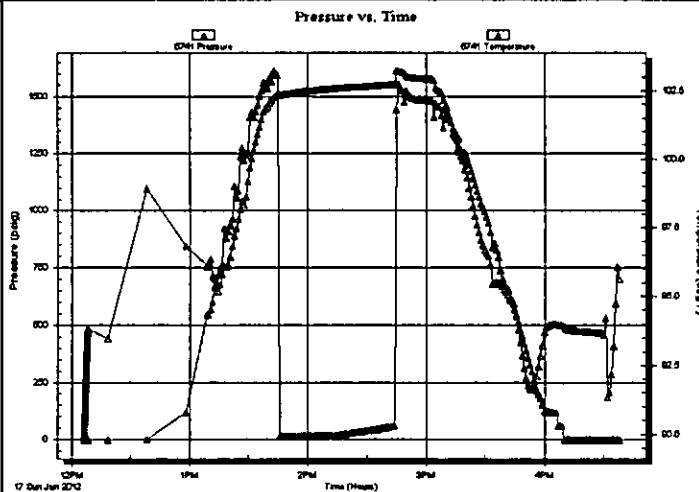
Hess Oil Co.
PO Box 1009
McPherson, Ks 67460
ATTN: Jamie Hess

Test Start: 2012.06.17 @ 12:06:37

KB to GR/CF: 5.00 ft

Time Off Btmc

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
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Length (ft)	Description	Volume (bbl)
1.00	OCM 10%O, 90%M	0.00

	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: 47149
DST#: 2
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: 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
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:

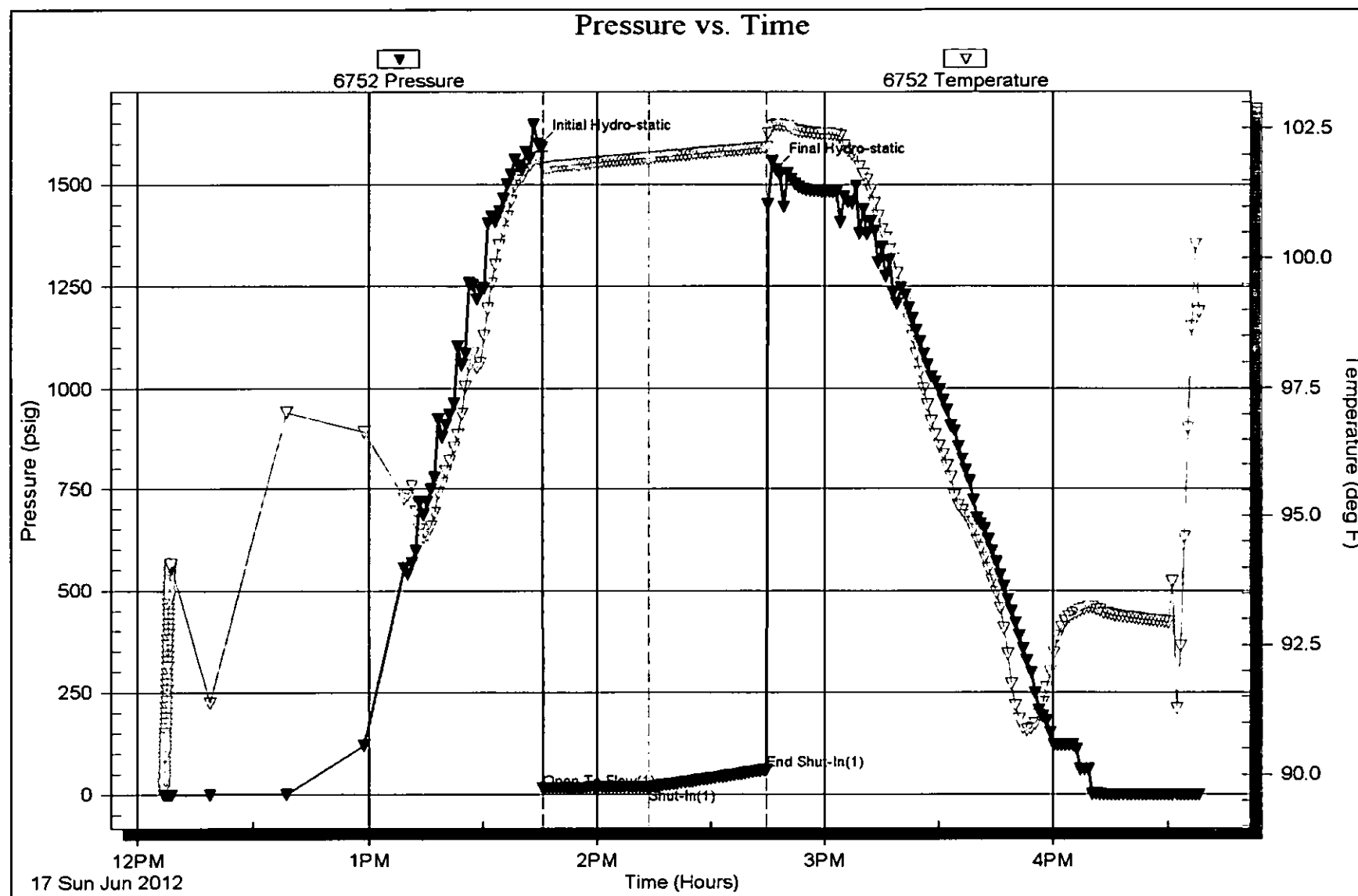
Recovery Comments:

Serial #: 6752

Inside Hess Oil Co.

Kriley A-3

DST Test Number: 2

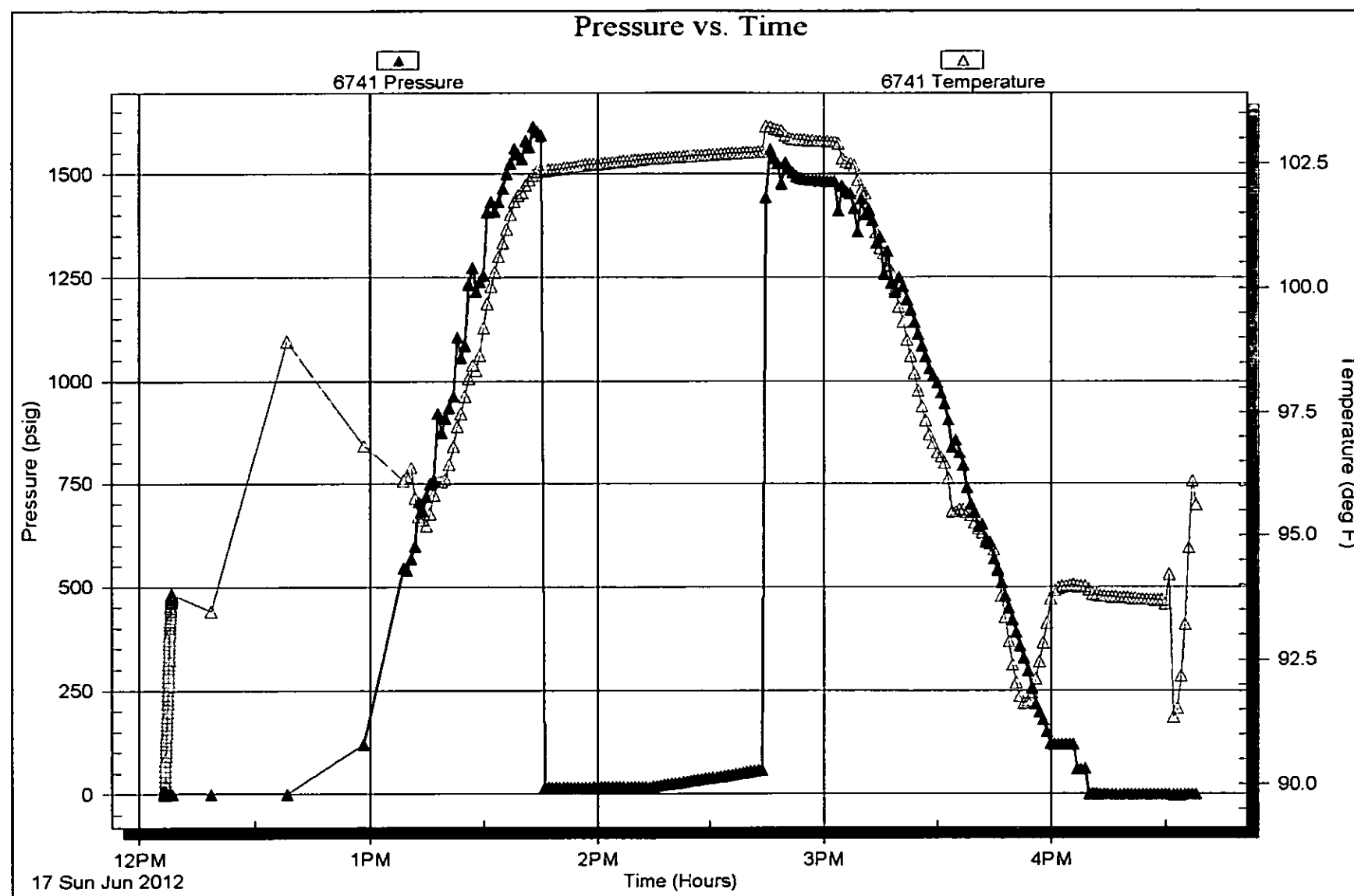


Serial #: 6741

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

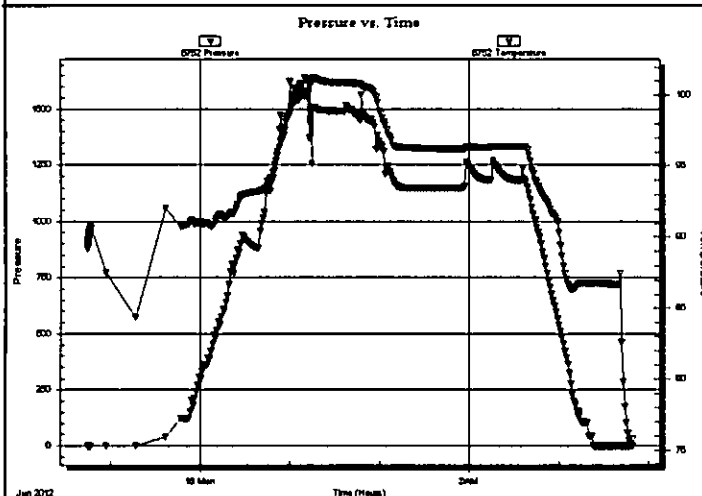
29-7-17 Rooks, Ks
Kriley A-3
Job Ticket: 47150 **DST#: 3**
Test Start: 2012.06.16 @ 17:32:00

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened:
Time Test Ended:
Interval: **3260.00 ft (KB) To 3290.00 ft (KB) (TVD)**
Total Depth: **3290.00 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: **1782.00 ft (KB)**
1777.00 ft (CF)
KB to GR/CF: **5.00 ft**

Serial #: **6752** Inside
Press@RunDepth: psig @ **3267.00 ft (KB)**
Start Date: **2012.06.17** End Date: **2012.06.18**
Start Time: **22:44:36** End Time: **04:49:05**
Capacity: **8000.00 psig**
Last Calib.: **2012.06.18**
Time On Btm:
Time Off Btm:

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



PRESSURE SUMMARY

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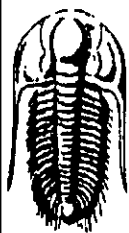
Recovery

Length (ft)	Description	Volume (bbl)

* Recovery from multiple tests

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: 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

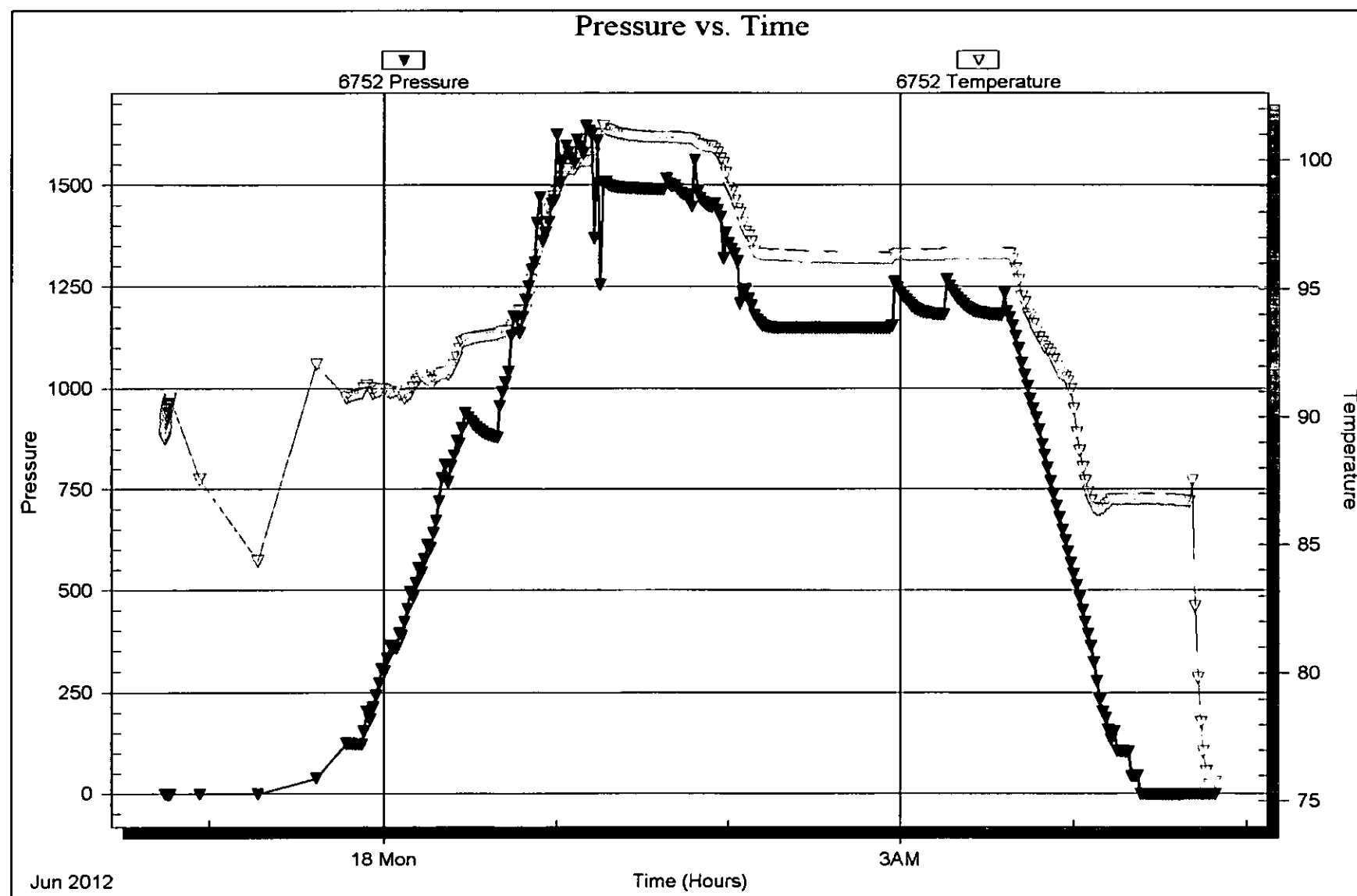
Total Length: ft Total Volume: bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

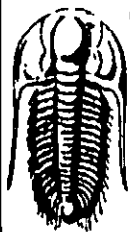
Serial #: 6752

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

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

Test Type: Conventional Bottom Hole (Reset)

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: 32.09 psig @ 3262.00 ft (KB)

Start Date: 2012.06.18

End Date:

2012.06.18

Capacity: 8000.00 psig

Last Calib.: 2012.06.18

Start Time: 04:58:44

End Time:

08:43:43

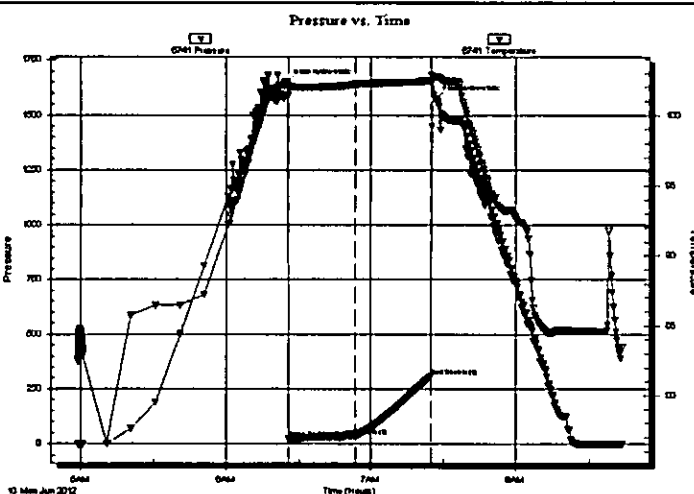
Time On Btm: 2012.06.18 @ 06:24:43

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 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

* Recovery from multiple tests

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

29-7-17 Rooks, Ks

Kriley A-3

Job Ticket: 47401

DST#: 4

ATTN: Jamie Hess

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:

Water Salinity: deg API

deg API

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:

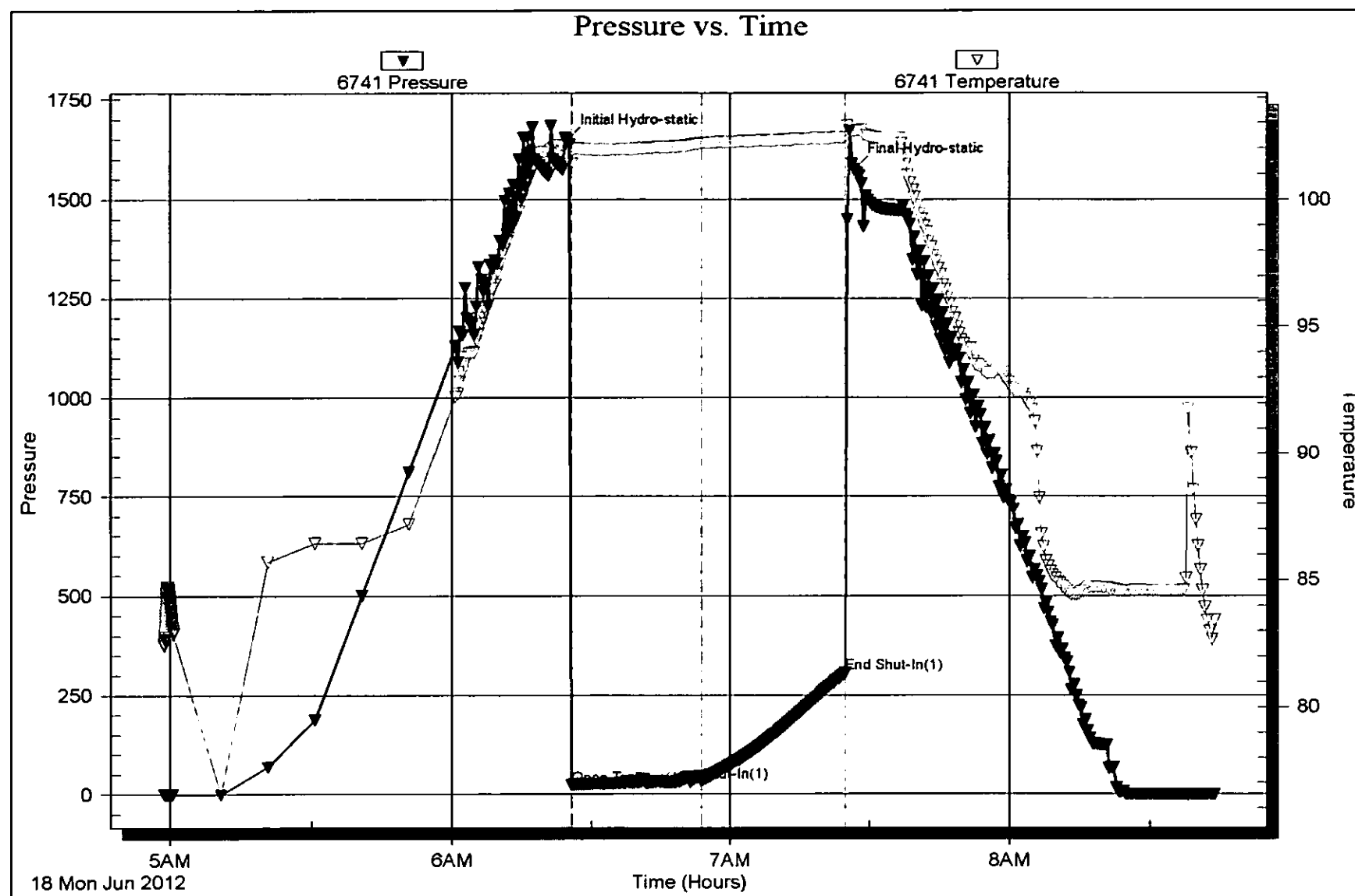
Recovery Comments:

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

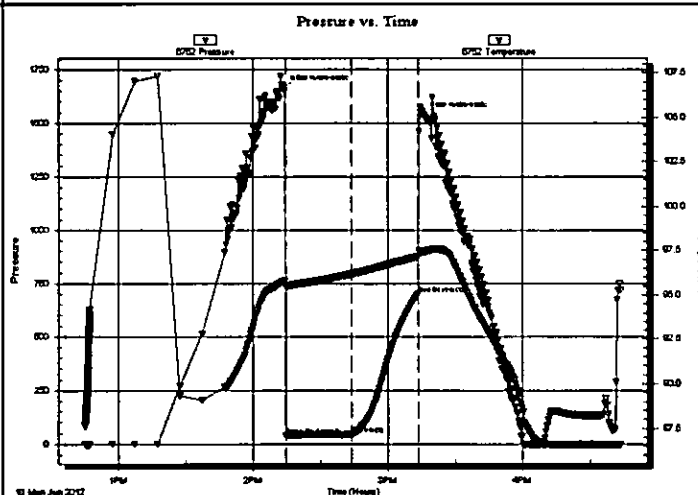
29-7-17 Rooks, Ks
Kriley A-3
Job Ticket: 47402 **DST#: 5**
Test Start: 2012.06.18 @ 12:45:27

GENERAL INFORMATION:

Formation: **Arbuckle (4)**
Deviated: **No** Whipstock: ft (KB)
Time Tool Opened: 14:14:27
Time Test Ended: 16:43:27
Interval: **3290.00 ft (KB) To 3300.00 ft (KB) (TVD)**
Total Depth: **3300.00 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: **1782.00 ft (KB)**
1777.00 ft (CF)
KB to GR/CF: **5.00 ft**

Serial #: **6752** Inside
Press@RunDepth: **43.20 psig @ 3292.00 ft (KB)**
Start Date: **2012.06.18** End Date: **2012.06.18**
Start Time: **12:45:28** End Time: **16:43:27**
Capacity: **8000.00 psig**
Last Calib.: **2012.06.18**
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 SUMMARY

Time (Mn.)	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

* Recovery from multiple tests

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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Hess Oil Co.
PO Box 1009
McPherson, Ks 67460

Kriley A-3

Job Ticket: 47402

DST#: 5

Test Start: 2012.06.18 @ 12:45:27

Formation: **Arbuckle (4)**

Formation: **Arbuckle (4)**

Deviated:	No	Whipstock:	ft (KB)
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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)

Total Depth: 3300.00 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: psi @ 3292.00 ft (KB)

Start Date: 2012.06.18

End Date:

2012.06.18

Capacity: 8000.00 psia

2012.06.18

Start Time: 12:45:12

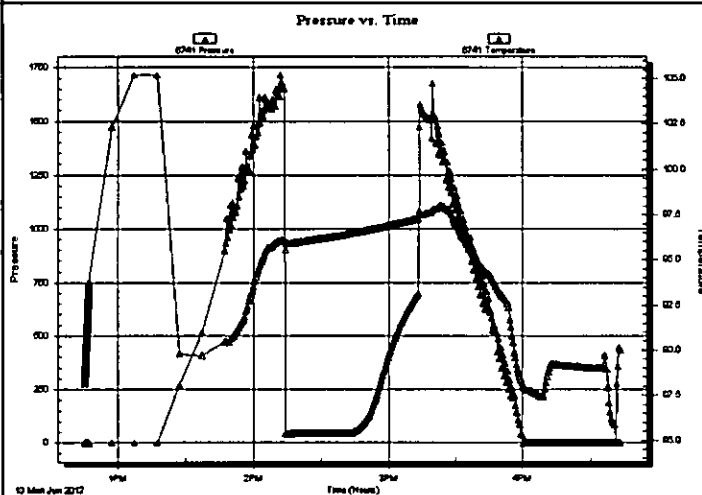
End Time:

16:43:11

Time On Btmc

Time Off Btmc

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



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
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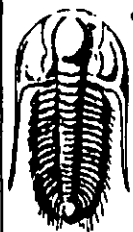
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
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Length (ft)	Description	Volume (bbl)
65.00	DRL MUD 100%	0.32

* Recovery from multiple tests

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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	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: 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:
Water Salinity: deg API 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:

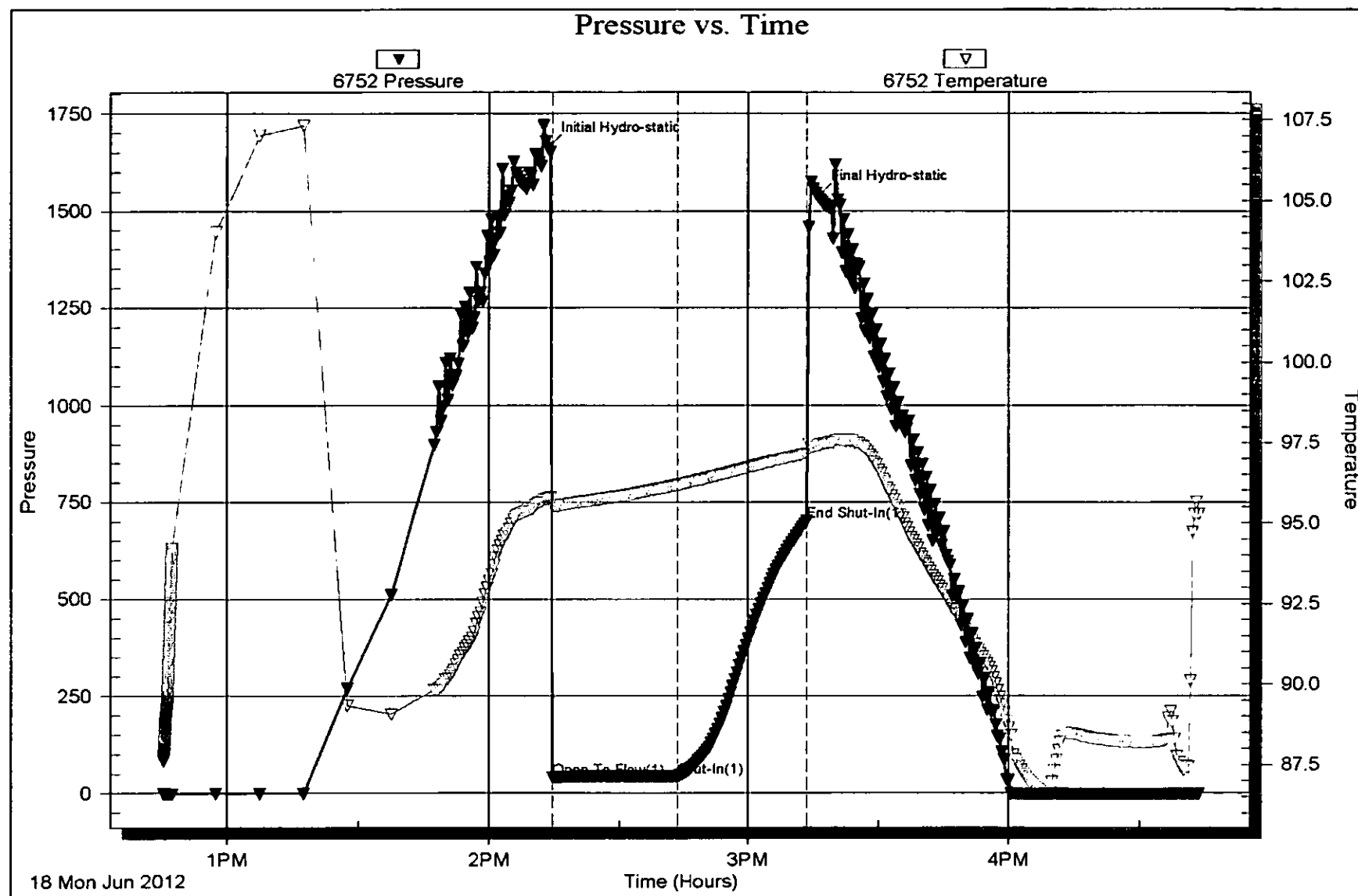
Recovery Comments:

Serial #: 6752

Inside Hess Oil Co.

Kriley A-3

DST Test Number: 5

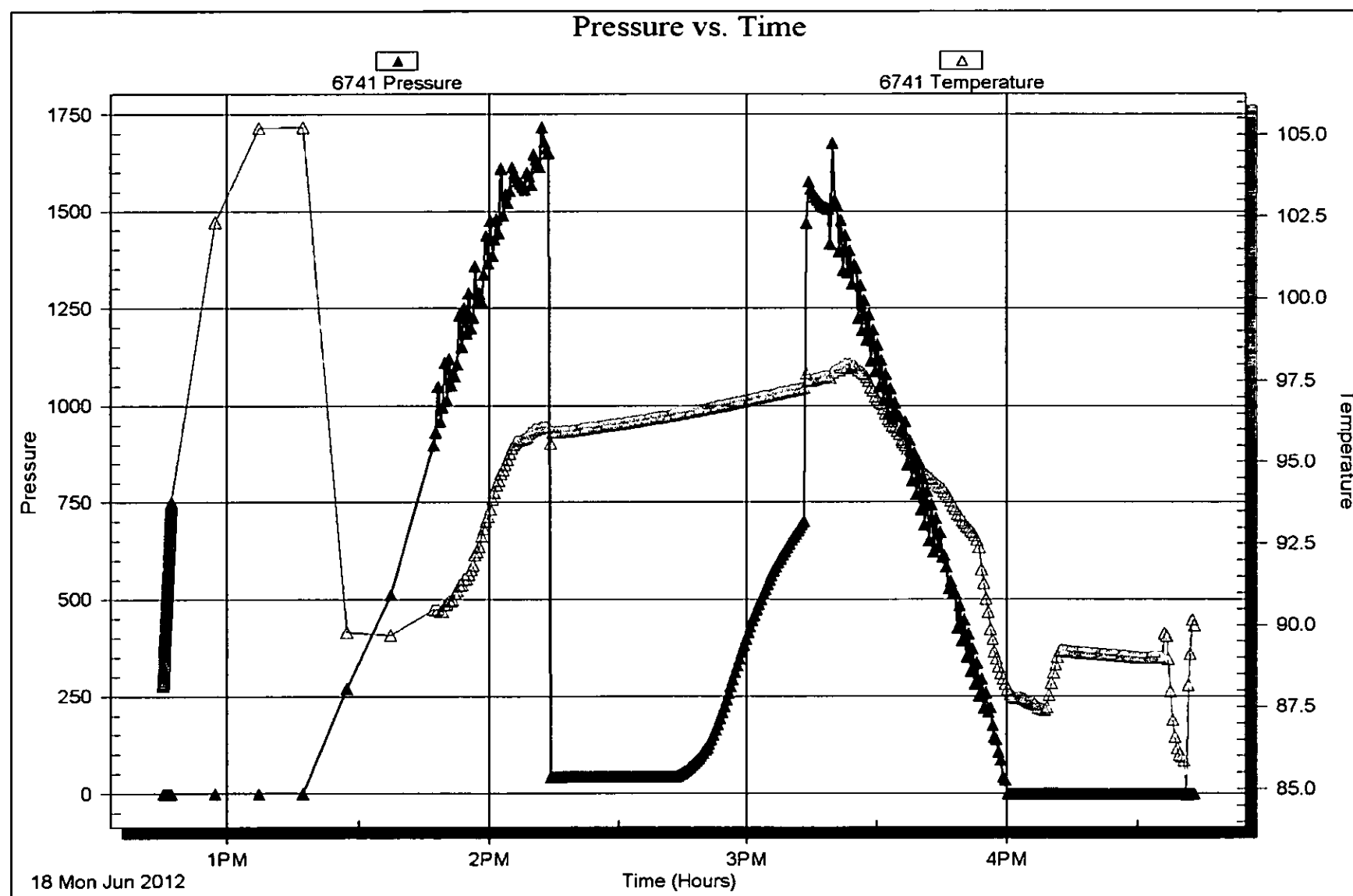


Serial #: 6741

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

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**

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

Tester: **Brian Fairbank**

Unit No: **41**

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**

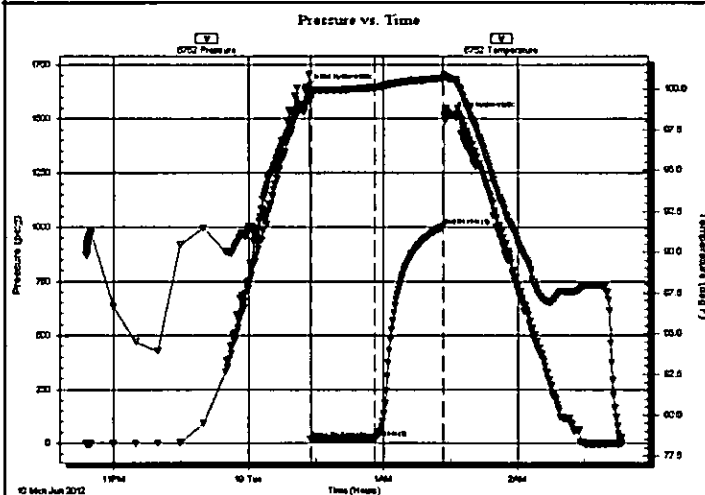
Time On Btm: **2012.06.19 @ 00:26:14**

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

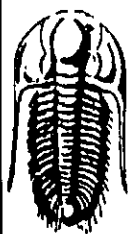
Recovery

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

* Recovery from multiple tests

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

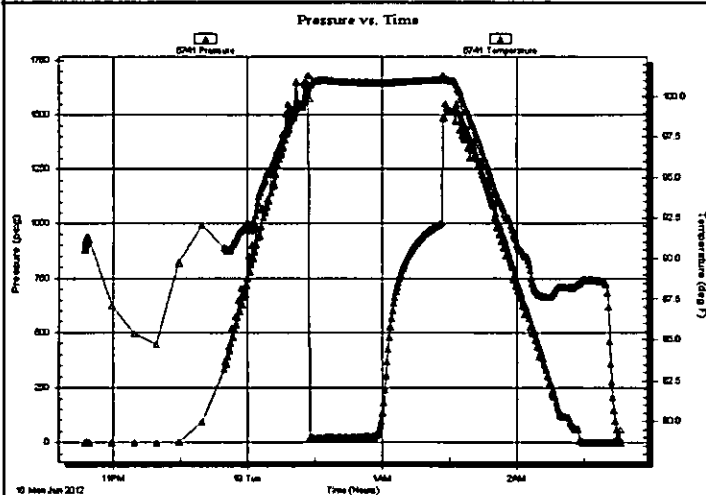
29-7-17 Rooks, Ks
Kriley A-3
Job Ticket: 47403 DST#: 6
Test Start: 2012.06.18 @ 22:47:44

GENERAL INFORMATION:

Formation: **Arbuckle (5)**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 00:27:44
Time Test Ended: 02:46:44
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**
Test Type: **Conventional Bottom Hole (Reset)**
Tester: **Brian Fairbank**
Unit No: **41**
Reference Elevations: **1782.00 ft (KB)**
1777.00 ft (CF)
KB to GRVCF: **5.00 ft**

Serial #: **6741** Outside
Press@RunDepth: psig @ **3292.00 ft (KB)**
Start Date: **2012.06.18** End Date: **2012.06.19**
Start Time: **22:47:34** End Time: **02:46:33**
Capacity: **8000.00 psig**
Last Calib.: **2012.06.19**
Time On Btm:
Time Off Btm:

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
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Recovery

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

* Recovery from multiple tests

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: 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:
Water Salinity: deg API
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:

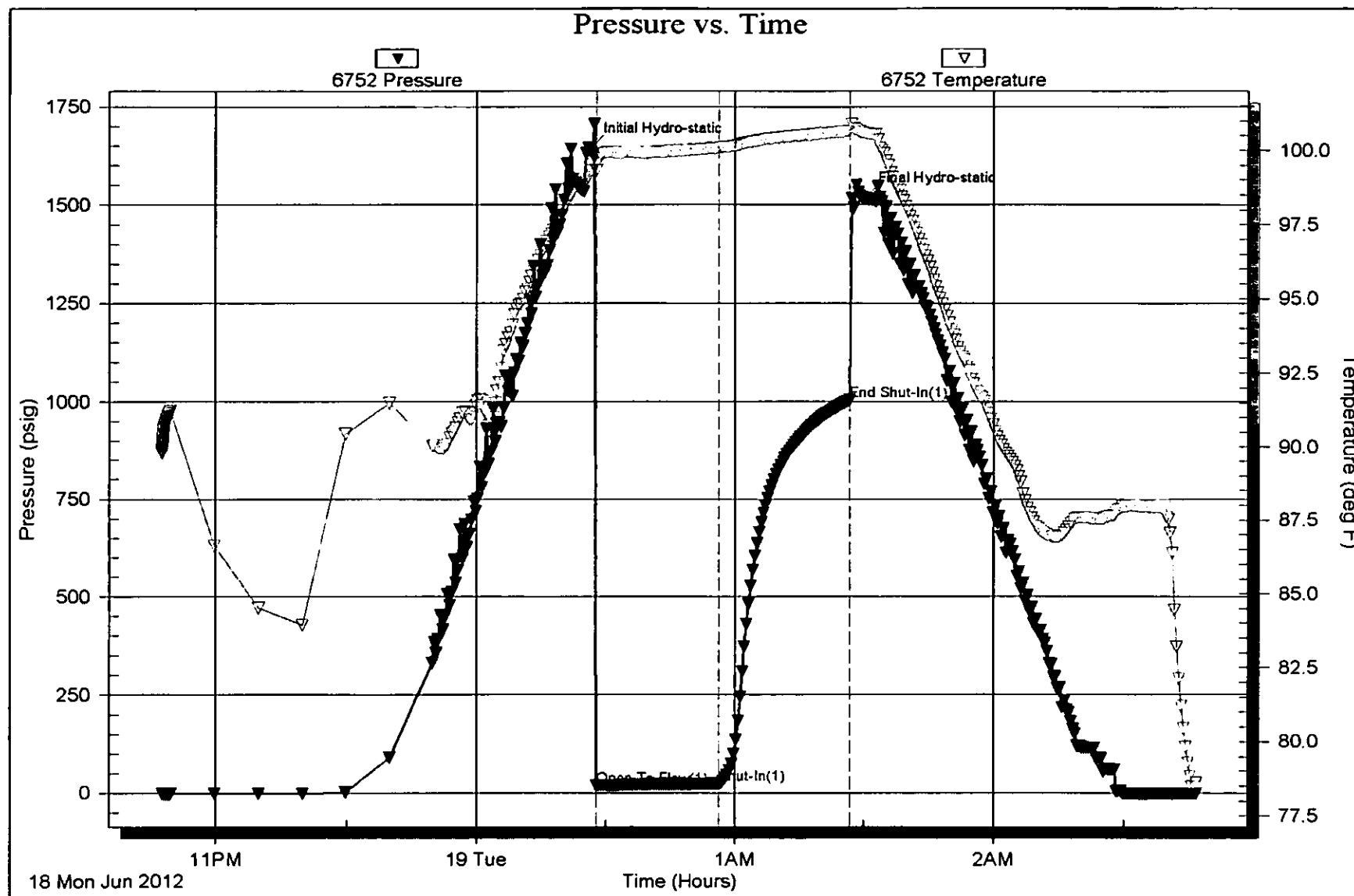
Recovery Comments:

Serial #: 6752

Inside Hess Oil Co.

Kriley A-3

DST Test Number: 6

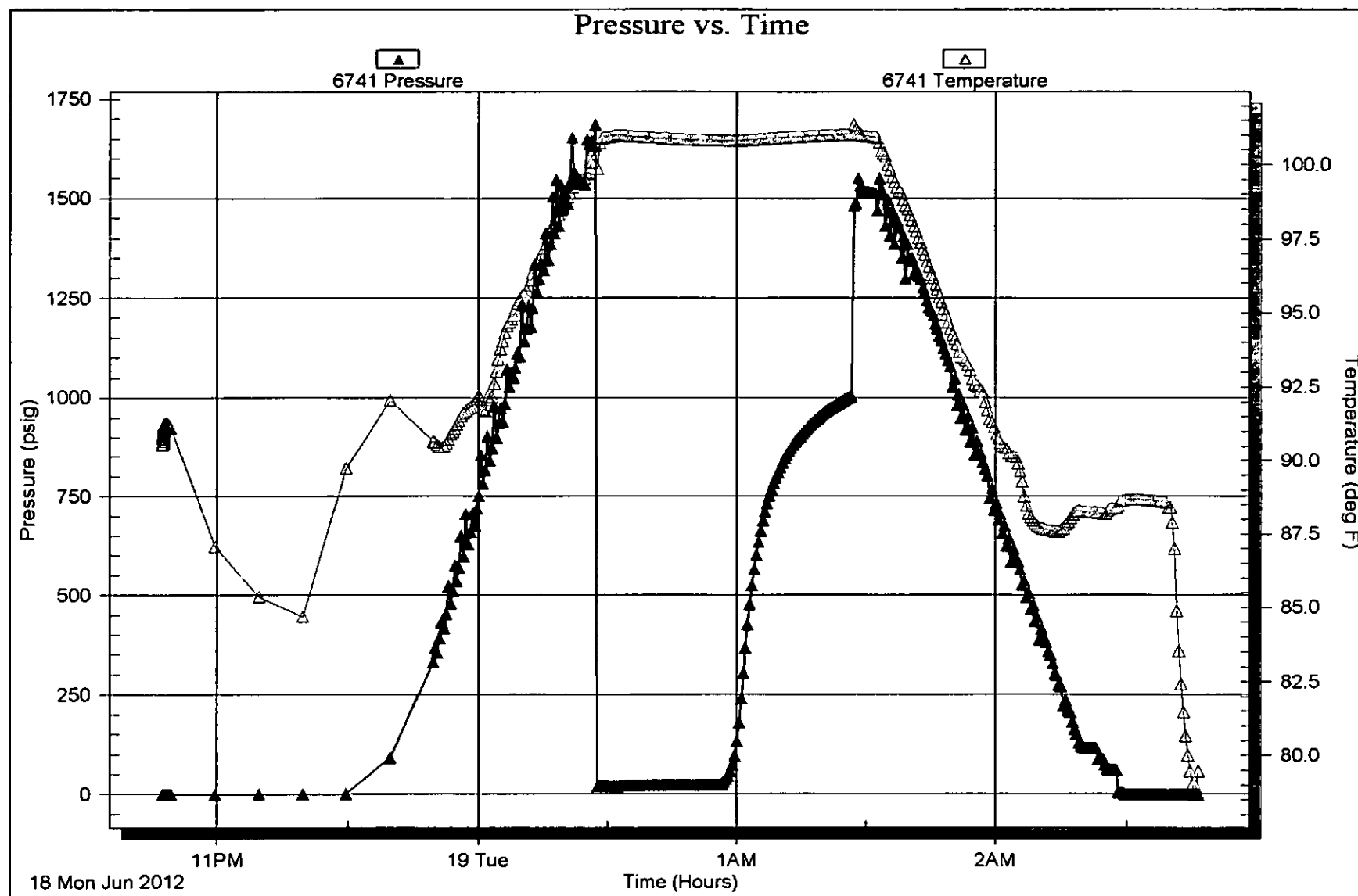


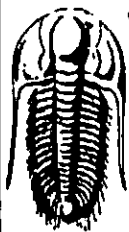
Serial #: 6741

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 **OST#: 7**
Test Start: 2012.06.19 @ 06:52:20

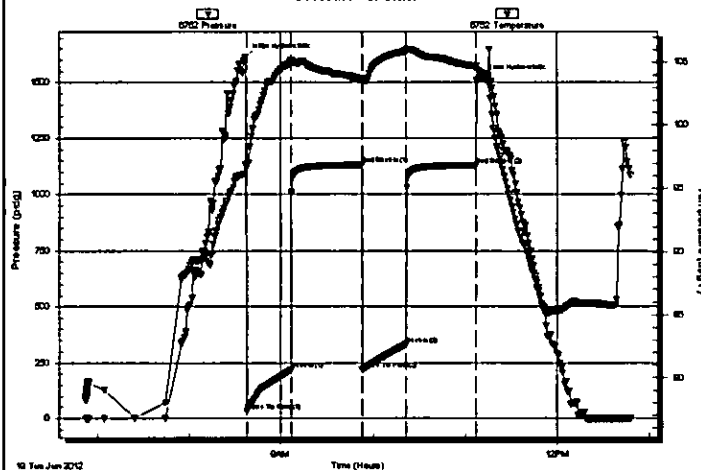
GENERAL INFORMATION:

Formation: **Arbuckle (6)**
Deviated: **No** Whipstock: **ft (KB)**
Time Tool Opened: 08:37:50
Time Test Ended: 12:47:50
Interval: **3290.00 ft (KB) To 3320.00 ft (KB) (TVD)**
Total Depth: **3320.00 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: **1782.00 ft (KB)**
1777.00 ft (CF)
KB to GR/CF: **5.00 ft**

Serial #: 6752 **Inside**
Press@RunDepth: **331.18 psig @ 3292.00 ft (KB)**
Start Date: **2012.06.19** End Date: **2012.06.19**
Start Time: **06:52:21** End Time: **12:47:50**
Capacity: **8000.00 psig**
Last Calib.: **2012.06.19**
Time On Btm: **2012.06.19 @ 08:36:50**
Time Off Btm: **2012.06.19 @ 11:10:50**

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

Pressure vs. Time



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

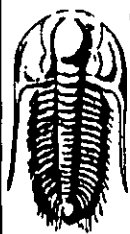
Recovery

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

* Recovery from multiple tests

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mc/d)
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**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

Mud Weight: 9.00 lb/gal

Viscosity: 54.00 sec/qt

Water Loss: 7.80 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:

deg API

Water Salinity: 32000 ppm

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

