



KANSAS CORPORATION COMMISSION 1087534  
OIL & GAS CONSERVATION DIVISION

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

WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 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 #: \_\_\_\_\_

<u>6/2/2012</u>	<u>6/10/2012</u>	<u>6/10/2012</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-163-24046-00-00

Spot Description: \_\_\_\_\_

SW NE NW SW Sec. 20 Twp. 7 S. R. 17  East  West  
2190 Feet from  North /  South Line of Section  
750 Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE     NW     SE     SW

County: Rooks

Lease Name: Kriley 'B' Well #: 5

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

Producing Formation: na

Elevation: Ground: 1766 Kelly Bushing: 1771

Total Depth: 3306 Plug Back Total Depth: \_\_\_\_\_

Amount of Surface Pipe Set and Cemented at: 1186 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 Garrisor Date: 07/26/2012



1087534

Operator Name: Hess Oil Company Lease Name: Kriley 'B' Well #: 5  
 Sec. 20 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 <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No  Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Submitted Electronically <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i>  List All E. Logs Run:	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input checked="" type="checkbox"/> Sample  Name Top Datum Attached Attached Attached
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CASING RECORD <input checked="" type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
Conductor	17.5	13.375	48	120	Class A	150	2% gel, 3% cc
Surface	12.25	8.625	24	1186	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 <i>(Amount and Kind of Material Used)</i>	Depth

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

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5) (Submit ACO-4)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Hess Oil Company
Well Name	Kriley 'B' 5
Doc ID	1087534

Tops

Strat	Top	Depth
Anhydrite	1160	+611
Base Anhydrite	1188	+583
Topeka	2698	-927
Heebner	2914	-1143
Lansing	2953	-1182
Base Kansas City	3186	-1415
Arbuckle	3272	-1501
RTD	3306	-1535

# HESS OIL COMPANY

225 N. Market, Suite 300  
Wichita, Kansas 67202

(316) 263-2243

## GEOLOGICAL REPORT

### KRILEY #B - 5

2190' FSL, 750' FWL of

SECTION 20 - 7S - 17W

ROOKS COUNTY, KANSAS

Commenced:	6-2-12	Elevations:	1766' GR, 1771' KB
Completed:	6-10-12	Surface Pipe:	8-5/8" @ 1186' KB
Contractor:	Mallard J.V.	Production Pipe:	none

One foot drilling time was kept from 1140 to 1200' KB and from 2600' to RTD. Ten foot drilling samples 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>1160</u>	<u>( +611)</u>
<u>BASE ANHYDRITE</u>	<u>1188</u>	<u>( +583)</u>
<u>TOPEKA</u>	<u>2698</u>	<u>( -927)</u>
<u>HEEBNER</u>	<u>2914</u>	<u>(-1143)</u>
<u>LANSING</u>	<u>2953</u>	<u>(-1182)</u>

2953-61' KB White, very finely crystalline, slightly chalky, limestone. Very slight shows of free oil in very poor intercrystalline porosity, no odor, slight stain, and a very slight cut.

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Kriley B-5

Page 2

Lansing ( cont. )

3054-62' KB Cream, finely crystalline, limestone. Fair to good show of free oil in poor intercrystalline porosity, Fair odor, fair stain, and a good cut.

3120-36' KB Cream, very fine to finely crystalline, limestone. Slight shows of free oil throughout interval -- no developed zone. no odor, slight stain, and slight cuts.

DRILL STEM TEST #1 3050 to 3154' KB 104' Anchor

Blow: Weak surface blow. 2nd --- weak surface blow.

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

Recovered: 130' Mud cut SW with slight oil specks.

Pressures: IH 1438# IF 15 - 54# ISIP 324#  
PH 1420# FF 56 - 81# FSIP 289#

BASE KANSAS CITY 3186 (-1415)

3191-95' KB Cream to tan, very finely crystalline, slightly chalky, limestone. Slight show of free oil in very poor intercrystalline porosity, no odor, slight stain, and a slight cut.

False Arbuckle Top -- 3244 (-1473)

3244-50' KB Fair show of free oil in White, very fine to finely crystalline, dense, (dolomitic) Limestone. No odor, fair stain, and a fair cut. (5% rocks w/show --- 95% White & tite !!)

3250-56' KB Weak shows of free oil in White, finely crystalline, dense, dolomite. Tite !

3257-72' KB White, very fine to finely crystalline, dense, dolomitic, limestone. Weak shows of free oil in interval, no odor, fair stain, and a fair cut. Picked up a lot of red shales !!



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Kriley #B - 5

Page 4

3296 - 3306' KB

Brown, fine to medium crystalline, dense, dolomite. Fair show of free oil in fair "vuggy" and intercrystalline porosity, slight odor, fair show, and a fair cut. Lots of solid pcs with no show / no porosity !?

DRILL STEM TEST #5

3294 to 3306' KB

12' Anchor

Blow: Weak surface blow -- died in 2 min.

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

Recovered: 2' Mud w/oil specks.

Pressures:    IH 1598#    IF 11 - 13#    ISIP 688#  
                  FH 1571#    FF ---        FSIP ---

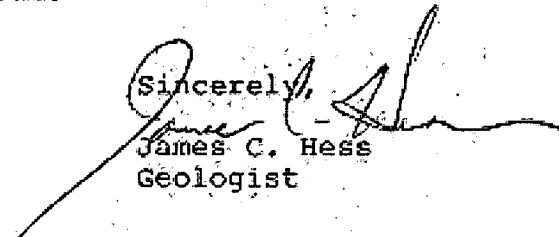
ROTARY TOTAL DEPTH

3306 (-1535)

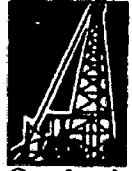
It was decided to quit drilling and testing as we were 5' lower than the lowest TD of any completed well. Only the slight shows of the Lansing "A" zone were not tested. All other shows were covered in DSTs 1 - 5.

Since this was the 5th hole on 40 Acres -- it was also decided that no logs would be needed. The Kriley #B-5 was plugged on 6-10-12. Racks had to be brought out to set aside the 98 jts of 5½" casing that was ready to be run.

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 \*B - 5  
FIELD RIFFE  
LOCATION 2190' FSL, 750' FWL  
SEC 20 TWSP 7 S RGE 17 W  
COUNTY ROOKS STATE KANSAS

ELEVATIONS

KB 1771'  
DF 1769'  
GL 1766'

Measurements Are All  
From KB

CONTRACTOR MALLARD J.V.  
SPUD 6-2-12 COMP 6-10-12  
RTD 3306' LTD none  
MUD UP 300' TYPE MUD CHEMICAL

CASING  
SURFACE 80' COND.  
PRODUCTION 5-1/2"

ELECTRICAL SURVEYS  
DUAL INDUCTION,  
POROSITY, & MICRO

SAMPLES SAVED FROM 2900' TO TD  
DRILLING TIME KEPT FROM 2600' TO TD  
SAMPLES EXAMINED FROM 2900' TO TD  
GEOLOGICAL SUPERVISION FROM 2550' TO TD  
GEOLOGIST ON WELL \_\_\_\_\_

FORMATION TOPS	LOG	SAMPLES
ANHYDRITE		1160 (+611)
BASE ANHYDRITE		1188 (+583)
TOPEKA		2698 (-927)
HEEBNER		2914 (-1143)
LANSING		2953 (-1182)
ARBUCKLE		3272 (-1501)
RTD		3306 (-1535)

17 W


20

7 S

REMARKS STRAP 3.31' SHORT TO BOARD



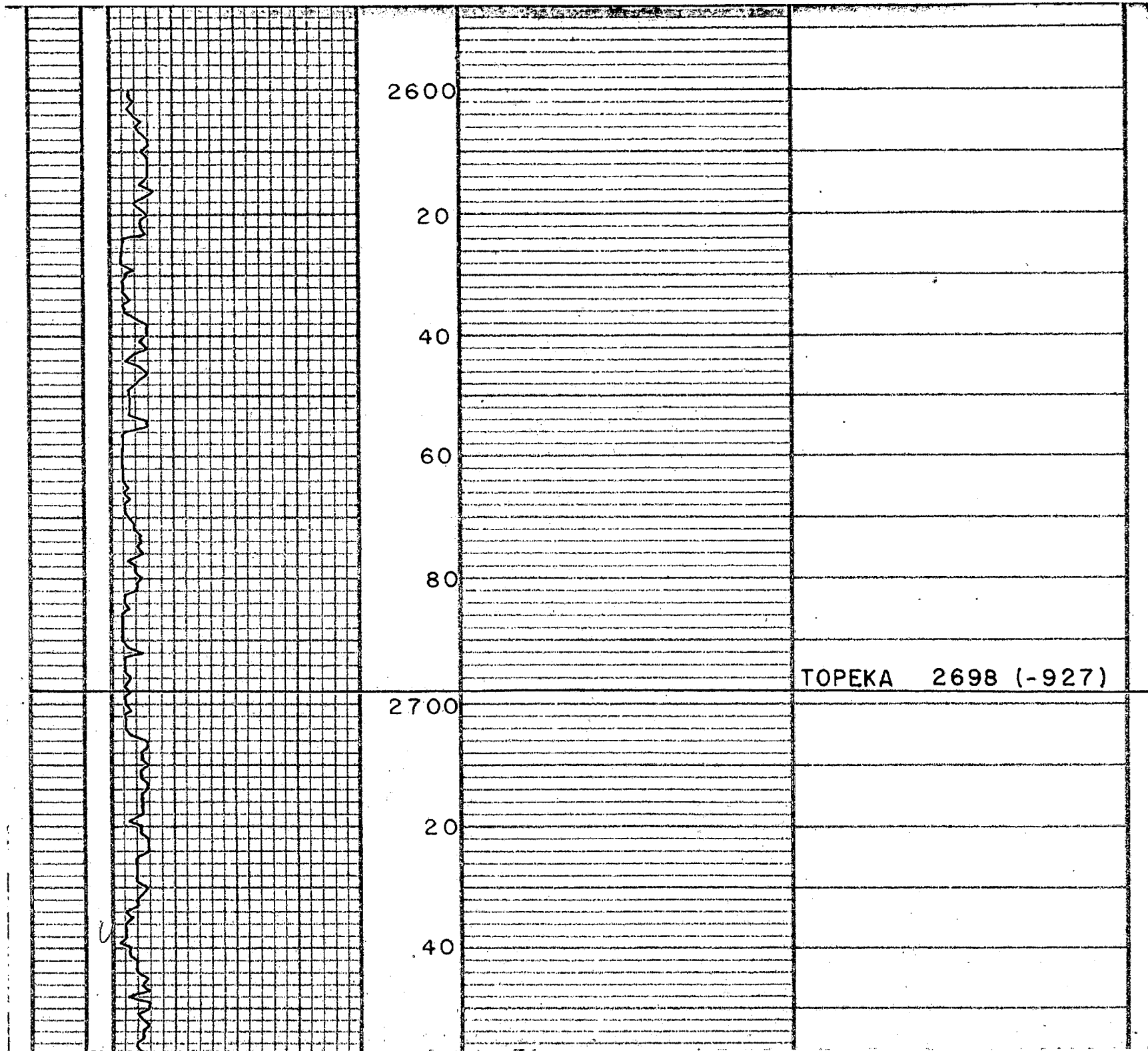
### LEGEND

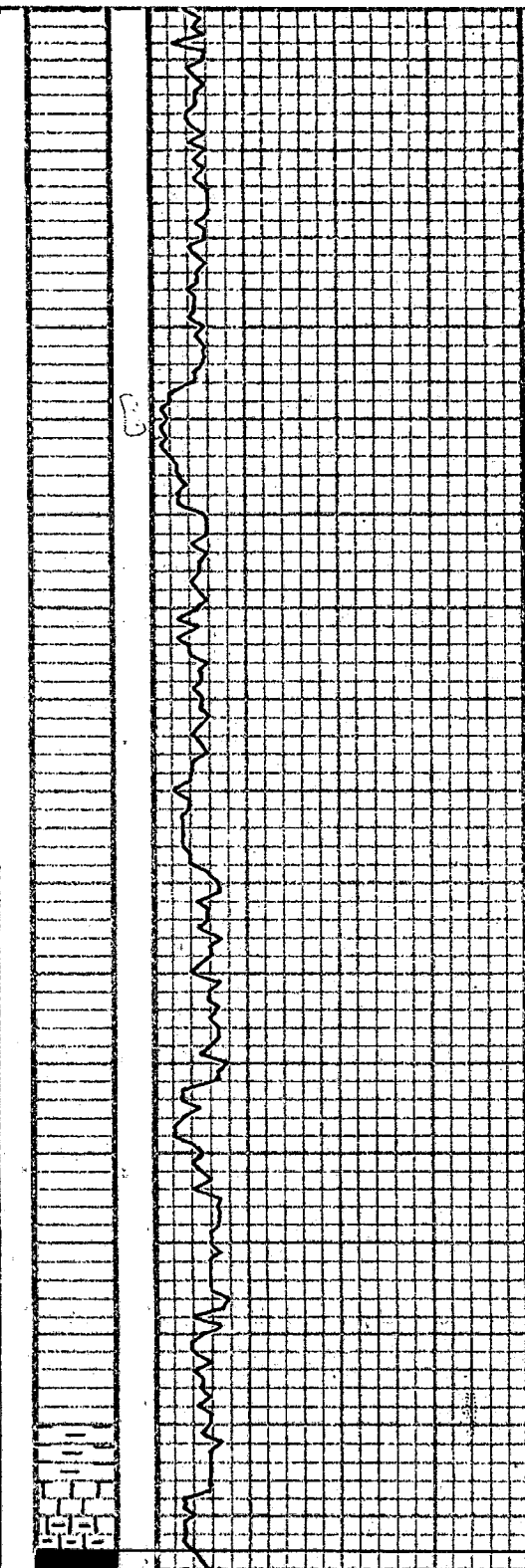


Anhydrite
Salt
Sandstone
Shale
Carb sh
Limestone
Ool. Lime
Chert
Dolomite

SCALE      " = 100'

LOG 7703	Uthology	Drilling time in minutes 0    5    10    15    20	DEPTH	Sample Description	Remarks, drill stem tests, etc.
			1140		
			60		ANHYDRITE 1160 (+611)
			80		8-5/8" at 1186"
					BASE <del>KANS</del> ANHYDRITE
			1200		
			20		
			2600		



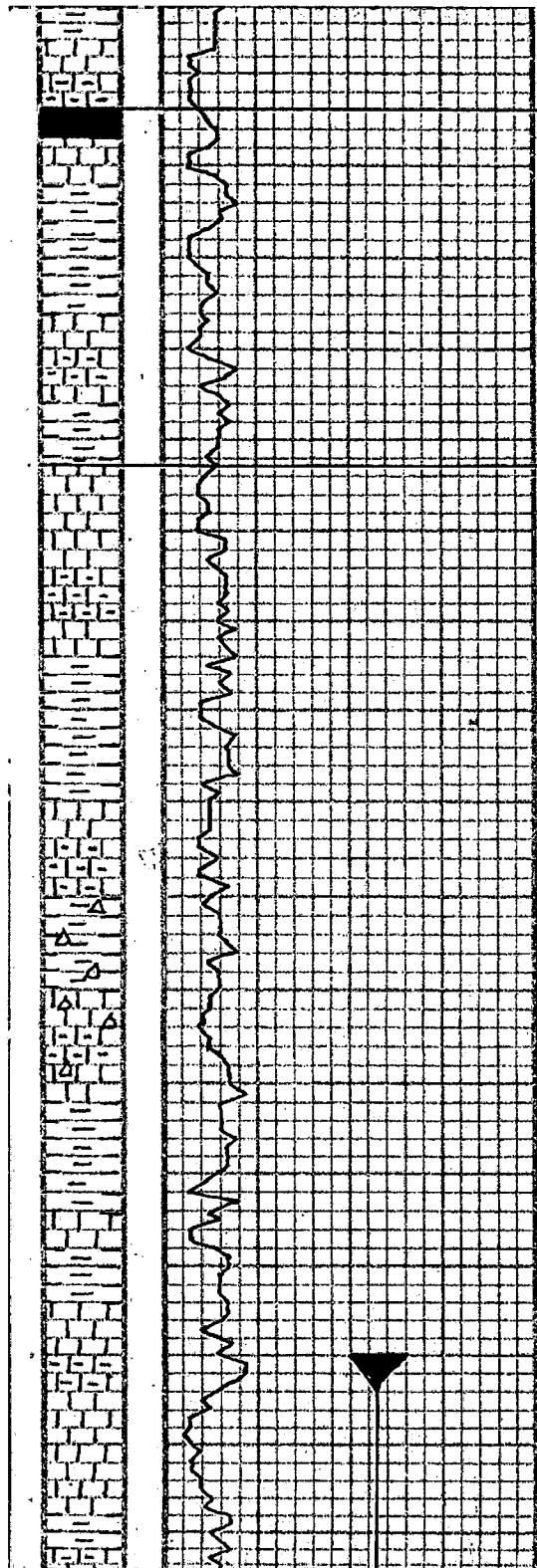


60  
80  
2800  
20  
40  
60  
80  
2900

Lim - TAN. V.F. in sl. Chalky Lim  
w/ P.E.'s. w/ chalky Lim.  
Some green. & R.L. sh's.

Bl. Carb. sh's.

HEEBNER 2914 (-1143)



Lim - TAN VE-FIN SL CHALKY LM  
 w/ PE'S WT CHALKY LM  
 Some GREEN & RED SH'S

Bl. Carb. SH'S

20 WT - TAN VE-FIN SL CHALKY LM  
 w/ SOME WT CHALKY LM  
 Some GREEN & RED SH'S  
 AA w/ more sh's NO B  
 NO SHOW

40 WT - TAN VE-FIN LM  
 w/ PE'S WT CHALKY LM  
 Some GREEN & RED SH'S  
 AA w/ more WT CHALKY LM  
 NO B  
 NO SHOW

60 V.S. shows of Free oil in WT VE-FIN  
 sl chalky LM. F.P. B. No odor

80 WT - LT TAN VE-FIN DS LM  
 w/ PE'S WT CHALKY LM  
 Few GREEN SH'S  
 AA w/ more SH'S NO B  
 NO SHOW

3000 WT - GRN VE-FIN DS LM  
 w/ PE'S WT CHALKY LM  
 Some GREEN SH'S  
 AA w/ less SH'S NO B  
 NO SHOW

20 WT - GRN VE-FIN SL CHALKY LM  
 w/ PE'S WT CHALKY LM  
 Some GREEN SH'S  
 AA w/ more sh's NO B  
 NO SHOW

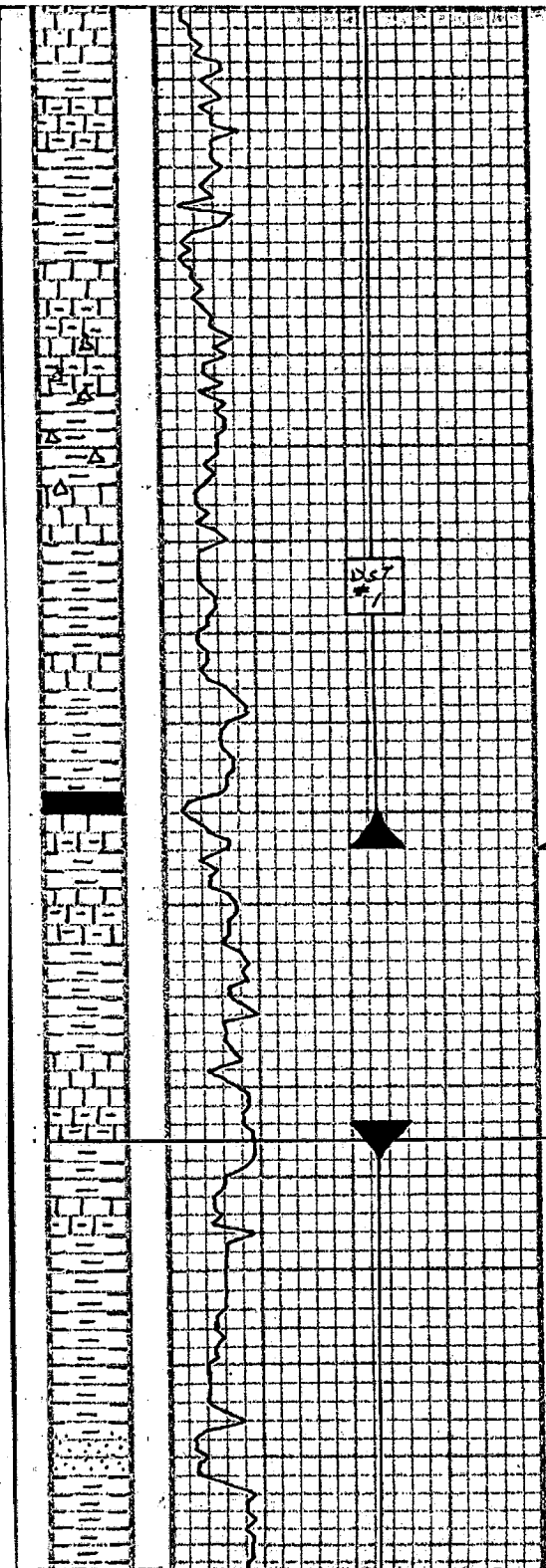
40 Lim VE-FIN SL CHALKY LM  
 PE'S WT CHALKY LM  
 Some GREEN & RED SH'S

60 Fair - Good Show of Free oil in  
 Com Exln LM. Poor interst. B.  
 Fair odor

WT - TAN VE-FIN DS SL CHALKY LM  
 w/ PE'S WT CHALKY LM  
 Few GREEN & RED SH'S

HEEBNER 2914 (-1143)

LANSING 2953 (-1182)



WT-TAN VPAIN OS sl chalky Lm  
w/ PC's wt chalky Lm  
Few green + Red sh's

AA w/more sh's  
No  $\beta$  No show

80  
Lm VPAIN OS sl chalky Lm  
w/ PC's wt chalky Lm  
Some green + Red sh's  
No show

WT-ORANGE VPAIN OS Lm  
w/ PC's wt chalky Lm  
Few green + Red sh's NO show

3100  
AA w/more sh's  
No  $\beta$  No show

WT-GRY VPAIN sl chalky Lm  
w/ PC's wt chalky Lm  
Some green + Red sh's

20  
sl shows of Free oil in Lm  
VPAIN Lm. NO odor  
"TTC"  
Some green + Red sh's

40  
AA w/more sh's  
No  $\beta$  NO Shows  
NO show Some Bl each. sh's

60  
Lm-TAN VPAIN OS Lm  
Some PC's wt chalky Lm  
Few green sh's

AA w/more sh's  
No  $\beta$  No show

80  
Lm-TAN VPAIN OS sl chalky Lm  
w/ PC's V.G. sharp  $\Delta$   
PC's wt chalky Lm  
Few green sh's

AA w/ No  $\beta$  No show

3200  
Lm-TAN VPAIN sl chalky Lm  
PC's V.G. sharp  $\Delta$   
PC's wt chalky Lm  
Some green + Red sh's  
sl shows of Free oil in foot  $\beta$   
No odor

AA w/more sh's  
No  $\beta$  No show

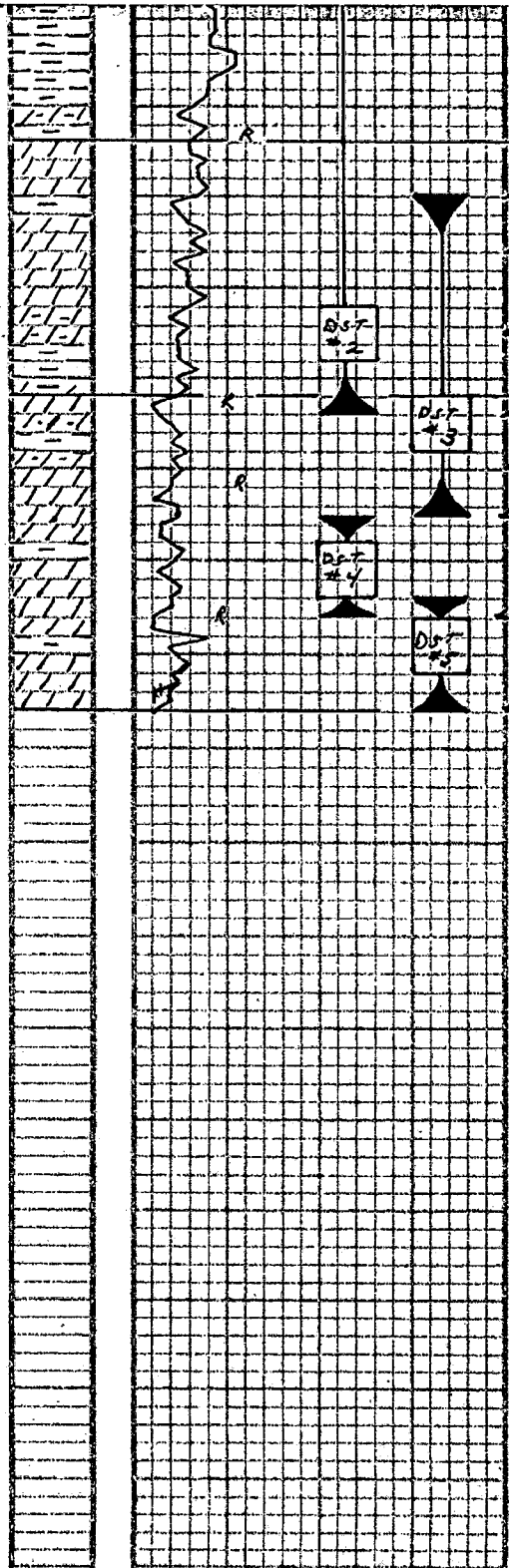
Lm VPAIN OS Lm  
w/ some wt chalky Lm  
Some Red + Green sh's

20  
Red sandstone clusters  
& filled w/red sh's  
No  $\beta$  No show

WT-Lm VPAIN OS Lm  
w/ some wt chalky Lm  
Some Red + Green sh's

DST #1
3050 - 3154' KB
104' ANCHOR
TIMES:
45-45-45-45
RECOVERED:
130' mcsw w/oil specks
PRESSURES:
IH 1438#
RH 1420#
IF 15-54#
FF 56-81#
ISIP 324#
FSIP 289#

BASE KANSAS CITY 3186  
(-1415)



Some Red & Green Sh's  
 Fair w/ Red & Green Sh's  
 No show  
 Fair show of Free Oil in WT VF-Fair DS Dolo. No odor (lots of rice cracks. No show)  
 Weak show of Free Oil in WT Fair DS Dolo. "TTC"  
 Weak shows in WT VF-Fair DS Dolo.  
 Lots of Red Sh's  
 Some ss clusters full of oil!  
 Fair to Good Show some Suggs B. Some Fair B. Br-Tan F-Malm Dolo. Fair odor Some Green Sh's Some Tar stain  
 Fair show lots of Br F-Malm Dolo.

40	FALSE ARB. TOP !?
60	ARBUCKLE 3272 (-1501)
80	
3300	
20	
40	
60	
80	
3400	

DST #2  
 3184-3274' KB  
 90' ANCHOR  
 TIMES:  
 30-30-0-0  
 RECOVERED:  
 5' m w/oil specks  
 PRESSURES:  
 IH 1537\*  
 FH 1508\*  
 IF 17-22\*  
 FF ---  
 ISIP 484\*  
 FSIP ---

DST #3  
 3250-3285' KB  
 35' ANCHOR  
 TIMES:  
 30-30-0-0  
 RECOVERED:  
 10' m w/oil specks  
 PRESSURES:  
 IH 1572\*  
 FH 1549\*

RTD  
 3306  
 (-1535)

10' M w/oil specks

PRESSURES:

IH 1572\*  
FH 1549\*  
IF 13-21\*  
FF ---  
ISIP 614\*  
FSIP ---

3400

20

40

60

80

DST \*4

3285 - 3296' KB

11' ANCHOR

TIMES:

30-30-0-0

RECOVERED:

3' M w/oil specks

PRESSURES:

IH 1621\*  
FH 1575\*  
IF 14-15\*  
FF ---  
ISIP 643\*  
FSIP ---

3500

DST \*5

3298 - 3306' KB

12' ANCHOR

TIMES:

30-30-0-0

RECOVERED:

~~2~~  
1' M w/oil specks

PRESSURES:

IH 1598\*  
FH 1571\*  
IF 11-13\*  
FF ---  
ISIP 688\*  
FSIP ---







# ALLIED OIL & GAS SERVICES, LLC 053549

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

SERVICE POINT:  
Great Bend, KS

DATE <u>6-4-12</u>	SEC. <u>20</u>	TWP. <u>7</u>	RANGE <u>17</u>	CALLED OUT	ON LOCATION	JOB START <u>7:00 AM</u>	JOB FINISH <u>12:00 PM</u>
LEASE <u>Kriley 'B'</u>	WELL# <u>5</u>	LOCATION <u>Stockton, KS 1/2 north</u>			COUNTY <u>Rooks</u>	STATE <u>KS</u>	
OLD OR <input checked="" type="radio"/> NEW (Circle one)		<u>1/2 east, 1/2 north, 1/4 east, south into</u>					

CONTRACTOR <u>W. St. Gerds</u>	OWNER <u>Hess Oil Co.</u>
TYPE OF JOB <u>Surface</u>	
HOLE SIZE <u>12 1/4</u> T.D. <u>1186</u>	CEMENT
CASING SIZE <u>8 5/8</u> DEPTH <u>1186</u>	AMOUNT ORDERED <u>3500 lbs 4 1/2" 6% gel 3/8" H. H. Seal - 100 lbs Class A 7% cc 3 1/2" gel</u>
TUBING SIZE DEPTH	
DRILL PIPE DEPTH	
TOOL DEPTH	
PRES. MAX MINIMUM	COMMON <u>200</u> @ <u>16.25</u> <u>3250.00</u>
MEAS. LINE SHOE JOINT	POZMIX @
CEMENT LEFT IN CSG. <u>42.60 ft.</u>	GEL <u>4</u> @ <u>21.25</u> <u>85.00</u>

PERFS.  
DISPLACEMENT 72.83 BBL.

**EQUIPMENT**

PUMP TRUCK # <u>244</u>	CEMENTER <u>Greg R</u>
	HELPER <u>Kerry R</u>
BULK TRUCK # <u>344-185</u>	DRIVER <u>Kevin E</u>
BULK TRUCK # <u>378</u>	DRIVER <u>Joel M</u>

CHLORIDE <u>18</u>	@ <u>58.20</u>	<u>1047.60</u>
ASC	@	
<u>3500 x 60/40 + 6%</u>	@ <u>14.50</u>	<u>5075.00</u>
<u>H. H. Seal 87</u>	@ <u>2.70</u>	<u>234.00</u>
HANDLING <u>581.01</u>	@ <u>2.10</u>	<u>1221.00</u>
MILEAGE <u>25.22 x 70 x</u>	@ <u>2.35</u>	<u>2,376.68</u>
<b>TOTAL</b>		<b><u>13,284.00</u></b>

**REMARKS:**  
See Cement Log!  
Plug down @ 11/45 AM

**SERVICE**

DEPTH OF JOB <u>1186</u>		
PUMP TRUCK CHARGE	<u>1125.00</u>	
EXTRA FOOTAGE <u>686</u>	@ <u>.95</u> <u>651.20</u>	
MILEAGE <u>HVM 40</u>	@ <u>7.00</u> <u>280.00</u>	
MANIFOLD <u>HVM 40</u>	@ <u>4.00</u> <u>160.00</u>	
<b>TOTAL</b>		<b><u>2,216.70</u></b>

CHARGE TO: Hess Oil Co.  
STREET \_\_\_\_\_  
CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

**PLUG & FLOAT EQUIPMENT**

<u>8 5/8" Basket</u>	@ <u>478.00</u>	<u>478.00</u>
<u>Baffle Plate</u>	@ <u>112.00</u>	<u>112.00</u>
<u>Rubber Plug</u>	@ <u>112.00</u>	<u>112.00</u>
<b>TOTAL</b>		<b><u>702.00</u></b>

To: Allied Oil & Gas Services, LLC.  
You are hereby requested to rent cementing equipment and furnish cement 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: Mark D. Elsen  
SIGNATURE: Mark D. Elsen  
Thank You!

SALES TAX (If Any) \_\_\_\_\_  
TOTAL CHARGES 16,202.78  
DISCOUNT 25% 4,050.02 IF PAID IN 30 DAYS  
12,152.08

# ALLIED OIL & GAS SERVICES, LLC 056140

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

SERVICE POINT: Russell

DATE <u>6-17-12</u>	SEC. <u>2D</u>	TWP. <u>7</u>	RANGE <u>17</u>	CALLED OUT	ON LOCATION	JOB START <u>6:00</u>	JOB FINISH <u>1:00</u>
LEASE <u>Kr. 109</u>	WELL # <u>B-5</u>	LOCATION <u>Abbeville</u>			COUNTY <u>Rooks</u>	STATE <u>KS</u>	
OLD OR (NEW) (Circle one)							

CONTRACTOR <u>Mallard #1</u>	OWNER
TYPE OF JOB <u>Plug</u>	
HOLE SIZE	T.D. <u>3252</u>
CASING SIZE	DEPTH
TUBING SIZE	DEPTH
DRILL PIPE	DEPTH
TOOL	DEPTH
PRES. MAX	MINIMUM
MEAS. LINE	SHOE JOINT
CEMENT LEFT IN CSG.	
PERFS.	
DISPLACEMENT	

CEMENT AMOUNT ORDERED <u>205 60/40 41.621</u>
<u>1/2 # Ebu seal</u>

EQUIPMENT	
PUMP TRUCK # <u>479</u>	CEMENTER <u>Todd Gilman</u> HELPER <u>Tom Pannestiel</u>
BULK TRUCK # <u>410</u>	DRIVER <u>Robert Yakubovich</u>
BULK TRUCK #	DRIVER

COMMON <u>120</u>	@ <u>16.25</u>	<u>1950.00</u>
POZMIX <u>85</u>	@ <u>8.50</u>	<u>722.50</u>
GEL <u>7</u>	@ <u>21.25</u>	<u>148.75</u>
CHLORIDE	@	
ASC	@	
<u>Amv seal 50%</u>	@ <u>2.70</u>	<u>135.00</u>
HANDLING <u>205</u>	@ <u>2.25</u>	<u>461.25</u>
MILEAGE <u>12,506</u>	@ <u>11</u>	<u>1375.65</u>
TOTAL		<u>4793.15</u>

REMARKS:  
 100% H<sub>2</sub>O @ 3252, mix 20% cement displaced  
 33500 vpd treated H<sub>2</sub>O at 1100 mixed  
 35% cement, displaced 1100 H<sub>2</sub>O, loaded H<sub>2</sub>O  
 at 650 mixed 100% cement, installed  
 wooden plug w/ HP cement, mixed cement #  
 20% mix 30% in port hole, mixed 15%  
 in mixed H<sub>2</sub>O

SERVICE		
DEPTH OF JOB		
PUMP TRUCK CHARGE		<u>1260.00</u>
EXTRA FOOTAGE	@	
MILEAGE <u>MHV Col</u>	@ <u>7.00</u>	<u>427.00</u>
MANIFOLD	@	
<u>MPLW Col</u>	@ <u>4.00</u>	<u>244.00</u>
<u>APM RHP</u>	@ <u>400.00</u>	<u>800.00</u>
<u>APM 2 hr</u>	<u>NL</u>	<u>NL</u>
TOTAL		<u>2731.00</u>

CHARGE TO: Hess Oil Co.  
 STREET \_\_\_\_\_  
 CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

PLUG & FLOAT EQUIPMENT		
<u>Big old wooden plug</u>	@	<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.

SALES TAX (if Any) <u>477.41</u>
TOTAL CHARGES <u>7,578.15</u>
DISCOUNT <u>20/50 2129.57</u> IF PAID IN 30 DAYS
<u>net 5448.48</u>

PRINTED NAME Justin McDonald  
 SIGNATURE [Signature]

6-11 BS



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Hess Oil Co  
225 N Market  
STE 300  
Wichita, Ks. 67202  
ATTN: Jamie Hess

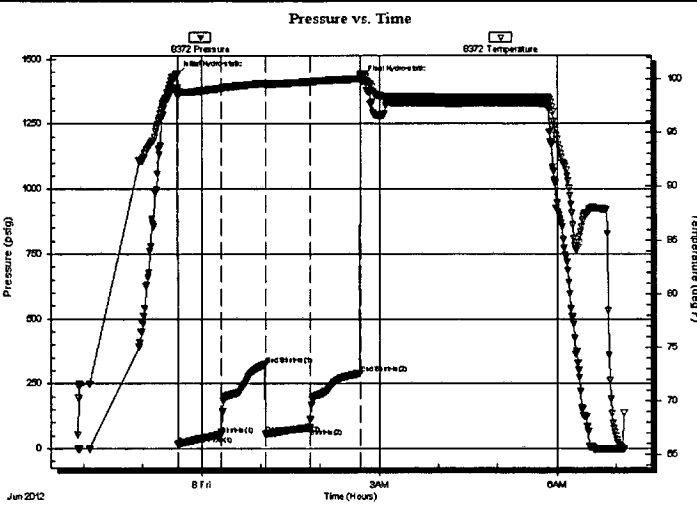
**20-7s-17w Rooks**  
**Kriley "B" #5**  
Job Ticket: 47344      **DST#: 1**  
Test Start: 2012.06.07 @ 21:54:05

### GENERAL INFORMATION:

Formation: **LKC**  
Deviated: No    Whipstock:                      ft (KB)  
Time Tool Opened: 23:35:40  
Time Test Ended: 07:08:20  
Interval: **3050.00 ft (KB) To 3154.00 ft (KB) (TVD)**  
Total Depth: 3154.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches    Hole Condition: Fair  
Reference Elevations: 1773.00 ft (KB)  
1768.00 ft (CF)  
KB to GR/CF: 5.00 ft

**Serial #: 8372      Outside**  
Press@RunDepth: 81.19 psig @ 3055.00 ft (KB)      Capacity: 8000.00 psig  
Start Date: 2012.06.07      End Date: 2012.06.08      Last Calib.: 2012.06.08  
Start Time: 21:54:05      End Time: 07:08:20      Time On Btm: 2012.06.07 @ 23:34:20  
Time Off Btm: 2012.06.08 @ 02:41:20

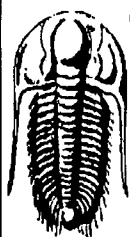
**TEST COMMENT:** IF:(45min) Weak surface blow  
IS:(45min) No Return  
FF:(45min) Weak surface blow  
FS:(45min) No Return



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1438.43	99.09	Initial Hydro-static
2	15.84	98.30	Open To Flow (1)
46	54.03	99.10	Shut-In(1)
91	324.50	99.55	End Shut-In(1)
91	56.84	99.45	Open To Flow (2)
136	81.19	99.69	Shut-In(2)
186	289.74	99.99	End Shut-In(2)
187	1420.65	100.42	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
130.00	MW w/ oil slight oil spks in tool	0.64

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Hess Oil Co  
225 N Market  
STE 300  
Wichita, Ks. 67202  
ATTN: Jamie Hess

**20-7s-17w Rooks**  
**Kriley "B" #5**  
Job Ticket: 47344      **DST#: 1**  
Test Start: 2012.06.07 @ 21:54:05

## Mud and Cushion Information

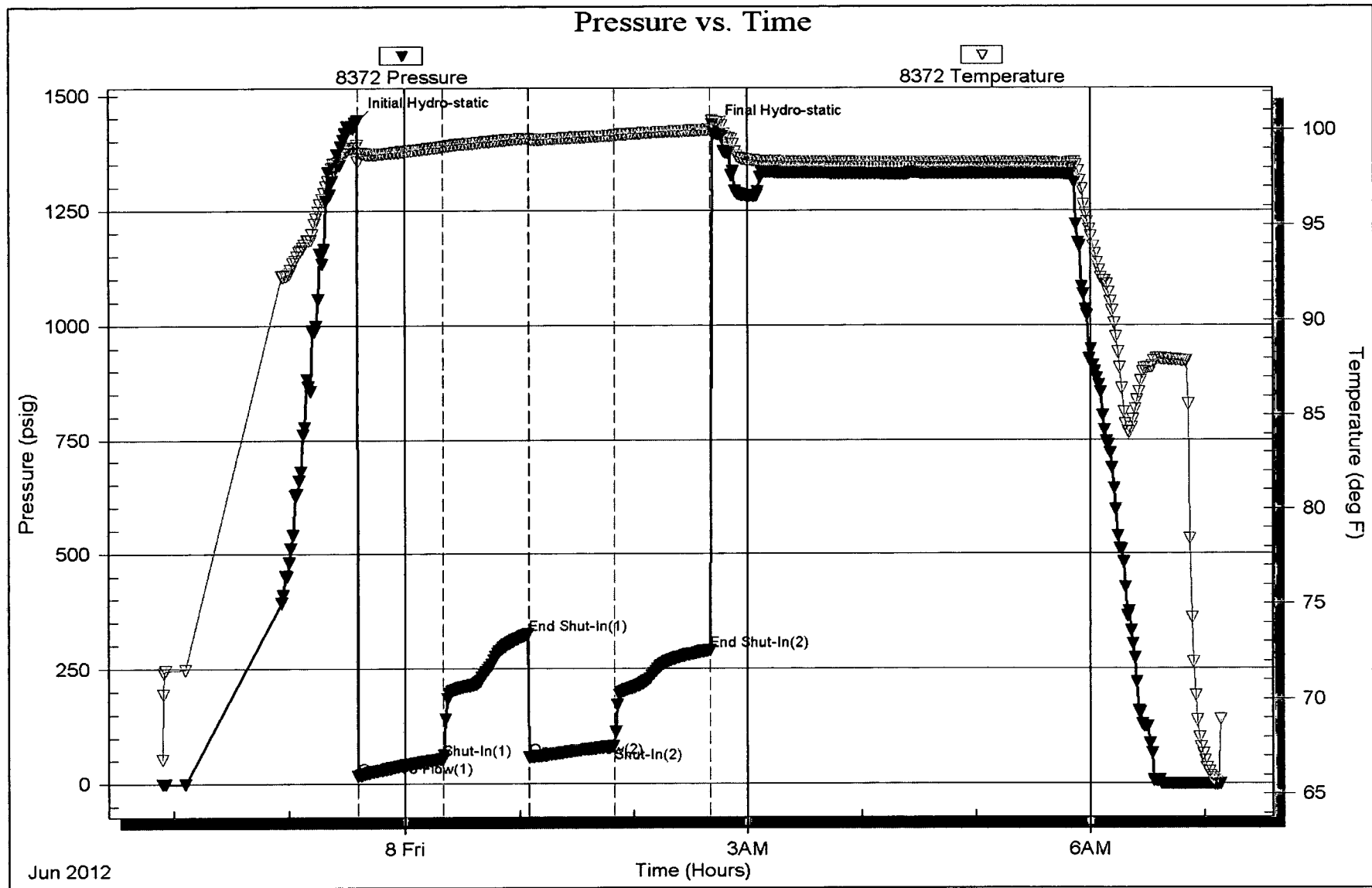
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	16000 ppm
Viscosity: 57.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.40 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 1700.00 ppm			
Filter Cake: inches			

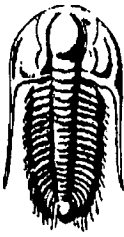
## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
130.00	MW w / oil slight oil spks in tool	0.639

Total Length: 130.00 ft      Total Volume: 0.639 bbl  
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
Laboratory Name:      Laboratory Location:  
Recovery Comments:





**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Hess Oil Co  
225 N Market  
STE 300  
Wichita, Ks. 67202  
ATTN: Jamie Hess

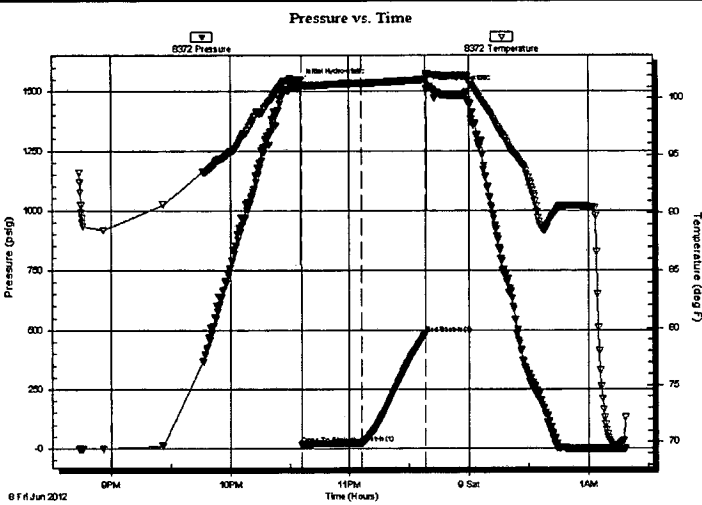
**20-7s-17w Rooks**  
**Kriley "B" #5**  
Job Ticket: 47345      **DST#: 2**  
Test Start: 2012.06.08 @ 20:44:05

### GENERAL INFORMATION:

Formation: **Arbuckle**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 22:36:00  
Time Test Ended: 01:18:39  
Test Type: Conventional Bottom Hole (Reset)  
Tester: Andy Carreira  
Unit No: 39  
Interval: **3184.00 ft (KB) To 3274.00 ft (KB) (TVD)**  
Reference Elevations: 1773.00 ft (KB)  
Total Depth: 3274.00 ft (KB) (TVD) 1768.00 ft (CF)  
Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 5.00 ft

**Serial #: 8372      Outside**  
Press@RunDepth: 22.94 psig @ 3189.00 ft (KB) Capacity: 8000.00 psig  
Start Date: 2012.06.08      End Date: 2012.06.09 Last Calib.: 2012.06.09  
Start Time: 20:44:05      End Time: 01:18:40 Time On Btm: 2012.06.08 @ 22:34:50  
Time Off Btm: 2012.06.08 @ 23:38:30

**TEST COMMENT:** IF:(30min) Surface blow , died in 1 min.  
IS:(30min) No Return Pulled Tool



### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1537.13	101.61	Initial Hydro-static
2	17.65	100.98	Open To Flow (1)
32	22.94	101.31	Shut-In(1)
64	484.73	101.63	End Shut-In(1)
64	1508.51	102.16	Final Hydro-static

### Recovery

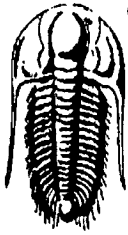
Length (ft)	Description	Volume (bbl)
5.00	Mud w / oil spks in tool	0.02

\* Recovery from multiple tests

### Gas Rates

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





**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Hess Oil Co  
225 N Market  
STE 300  
Wichita, Ks. 67202  
ATTN: Jamie Hess

**20-7s-17w Rooks**  
**Kriley "B" #5**  
Job Ticket: 47345      **DST#: 2**  
Test Start: 2012.06.08 @ 20:44:05

**Mud and Cushion Information**

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 56.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.80 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 2100.00 ppm			
Filter Cake: inches			

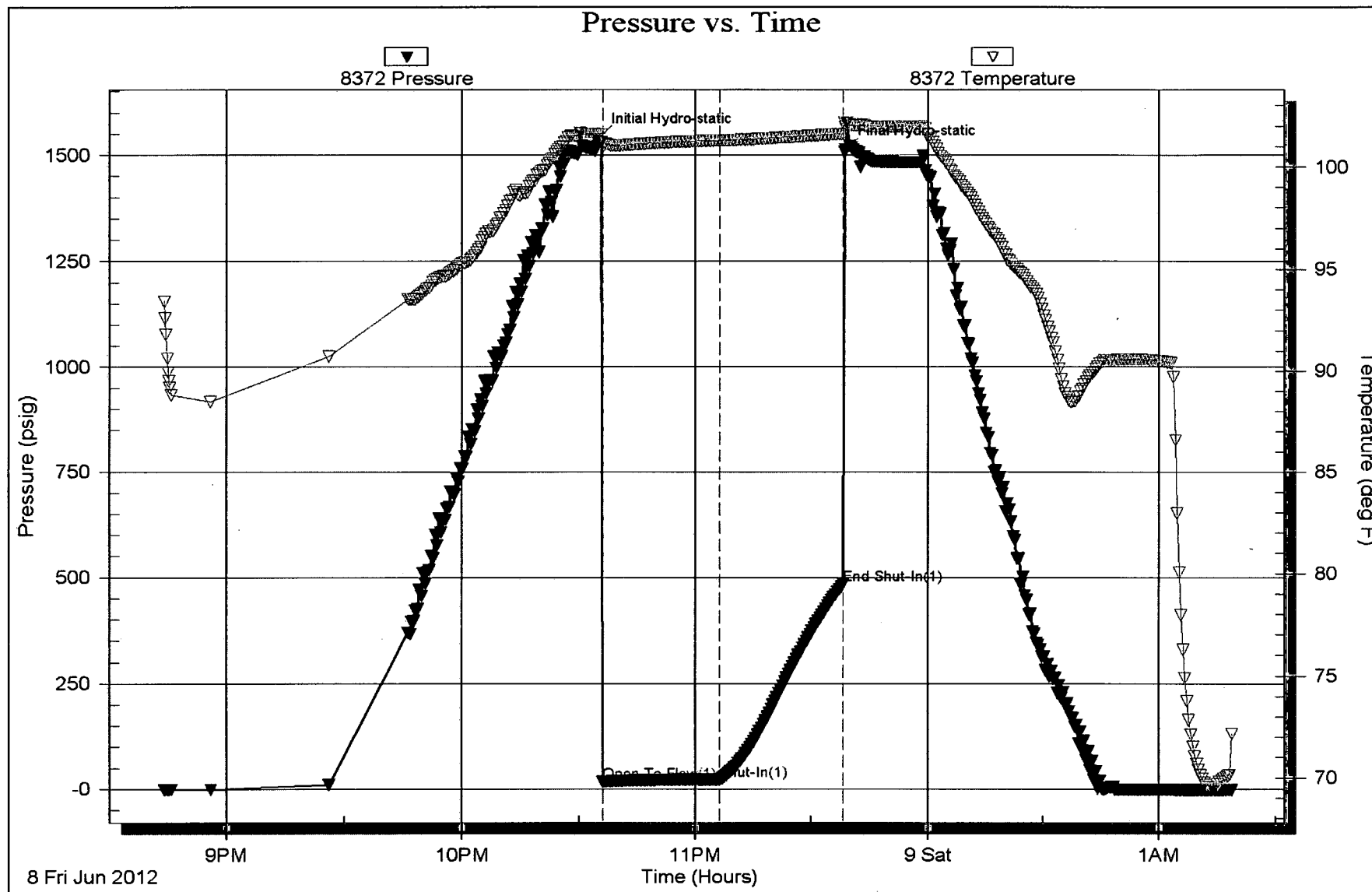
**Recovery Information**

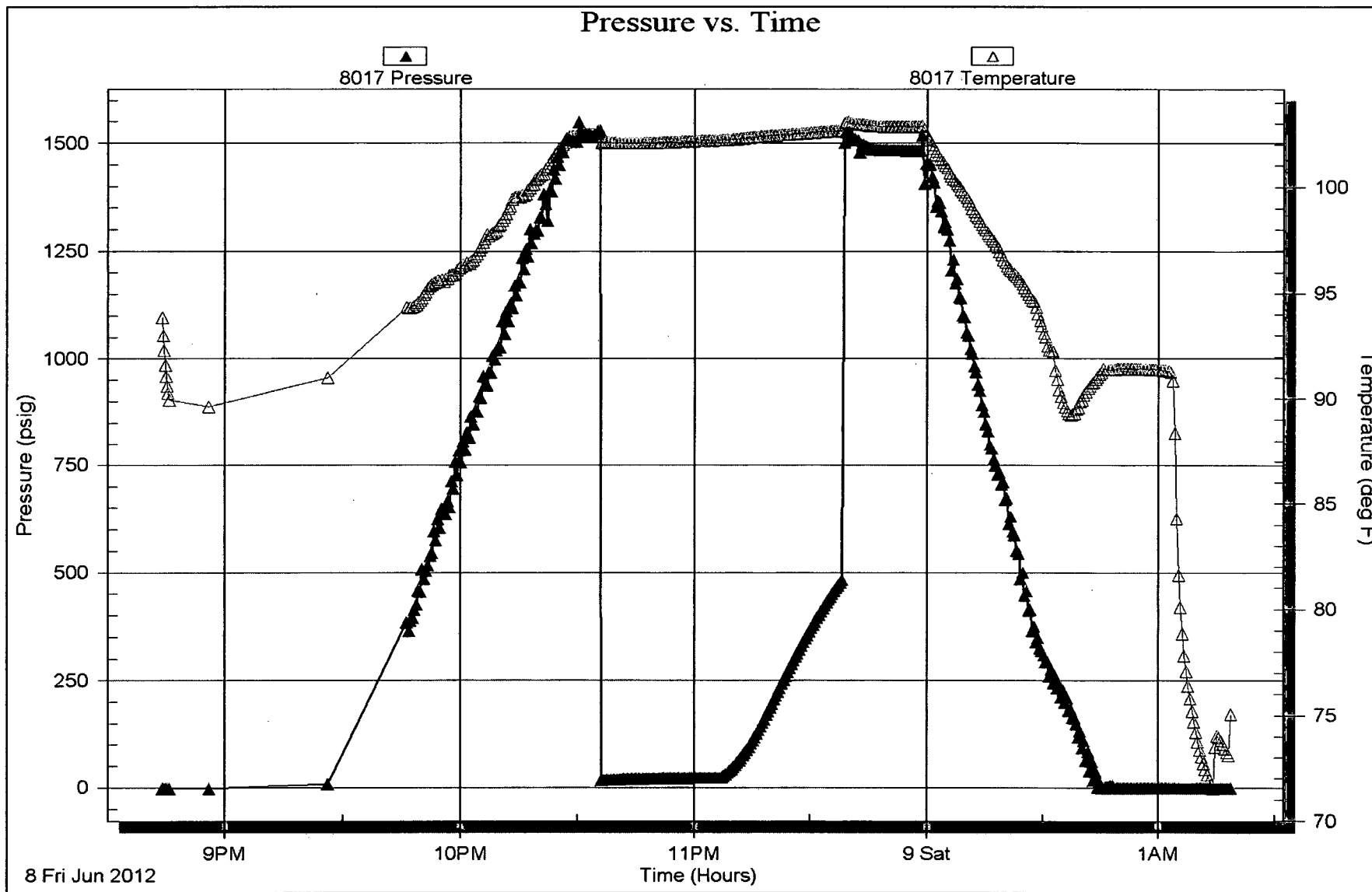
Recovery Table

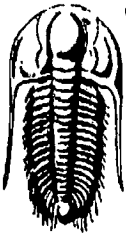
Length ft	Description	Volume bbl
5.00	Mud w/ oil spks in tool	0.025

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:









**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Hess Oil Co  
 225 N Market  
 STE 300  
 Wichita, Ks. 67202  
 ATTN: Jamie Hess

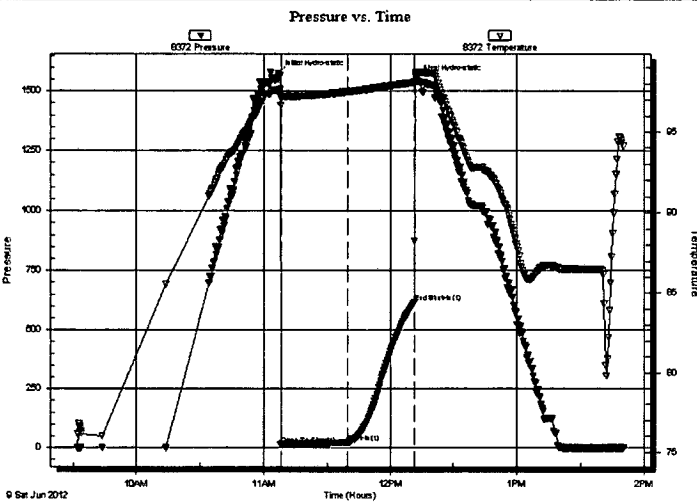
**20-7s-17w Rooks**  
**Kriley "B" #5**  
 Job Ticket: 47346      **DST#: 3**  
 Test Start: 2012.06.09 @ 09:32:05

## GENERAL INFORMATION:

Formation: **Arbuckle**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 11:08:00  
 Time Test Ended: 13:50:20  
 Interval: **3250.00 ft (KB) To 3285.00 ft (KB) (TVD)**  
 Total Depth: 3285.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Andy Carreira  
 Unit No: 39  
 Reference Elevations: 1773.00 ft (KB)  
 1768.00 ft (CF)  
 KB to GR/CF: 5.00 ft

**Serial #: 8372      Outside**  
 Press@RunDepth: 21.06 psig @ 3251.00 ft (KB)      Capacity: 8000.00 psig  
 Start Date: 2012.06.09      End Date: 2012.06.09      Last Calib.: 2012.06.09  
 Start Time: 09:32:05      End Time: 13:50:20      Time On Btm: 2012.06.09 @ 11:06:50  
 Time Off Btm: 2012.06.09 @ 12:12:30

**TEST COMMENT:** IF:(30min) Surface blow , died in 5 min.  
 IS:(30min) No Return, Pulled Tool.



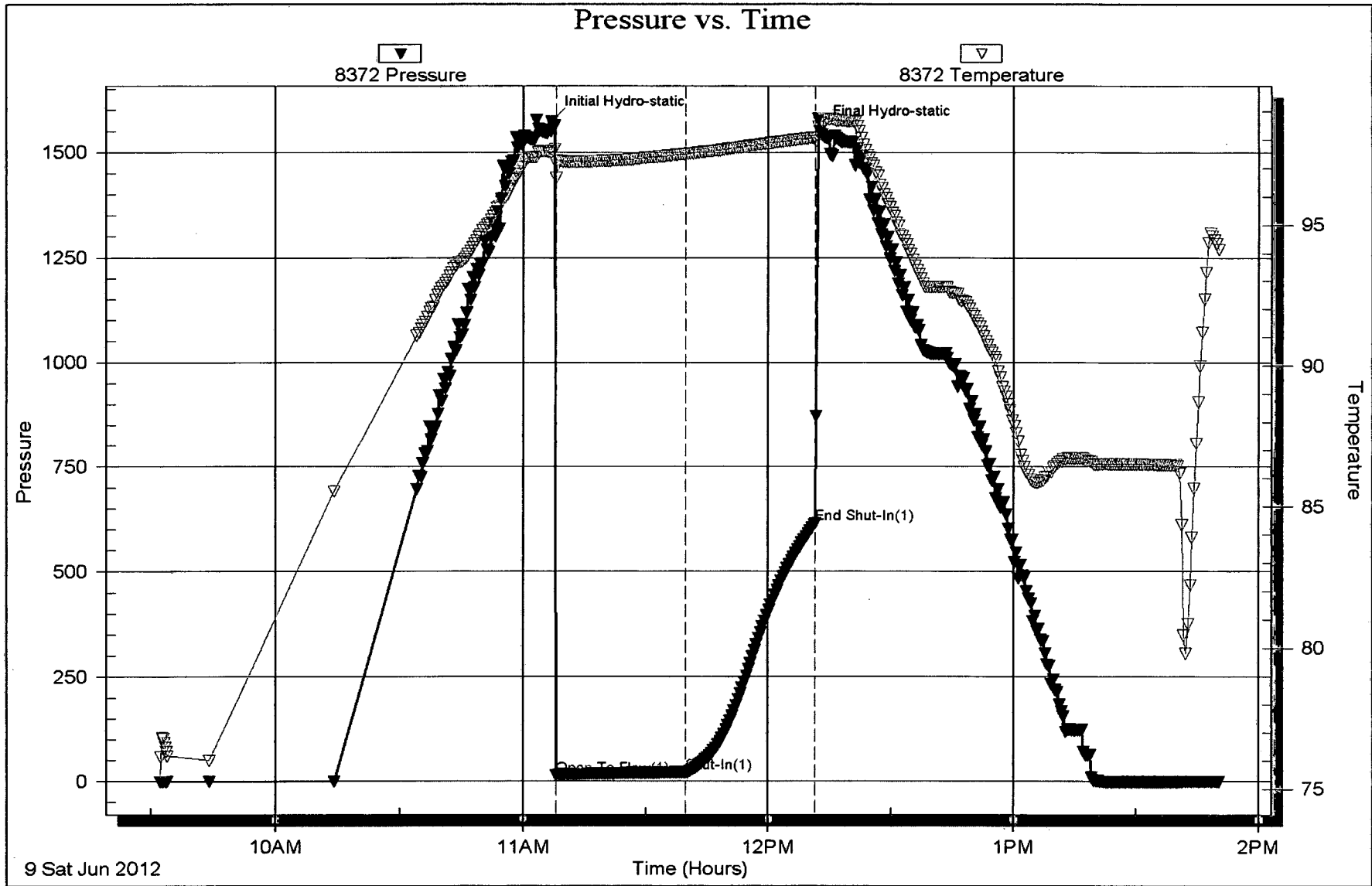
PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1572.27	97.54	Initial Hydro-static
2	13.78	96.66	Open To Flow (1)
33	21.06	97.50	Shut-In(1)
65	614.89	98.08	End Shut-In(1)
66	1549.51	98.57	Final Hydro-static

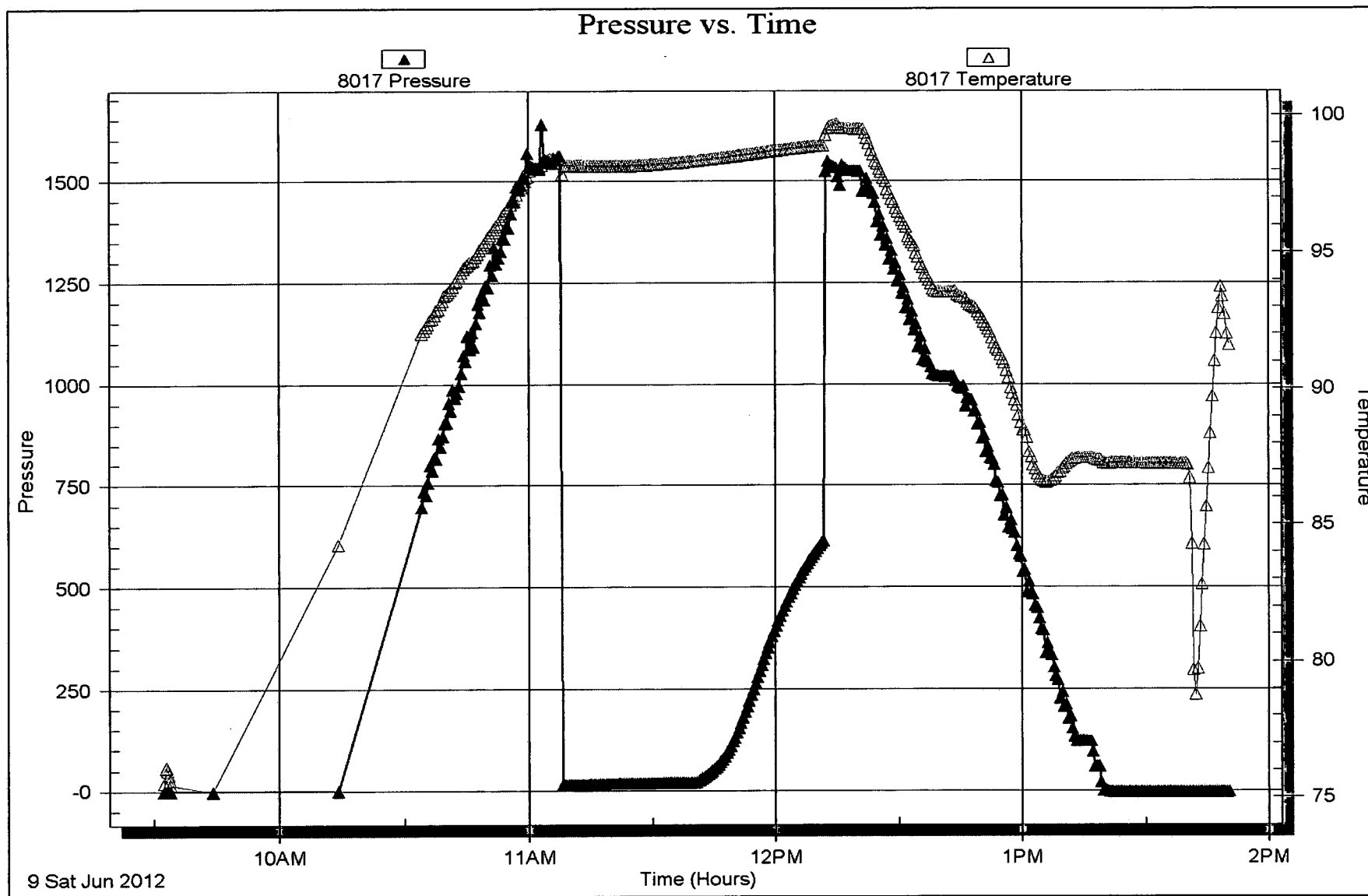
Recovery		
Length (ft)	Description	Volume (bbl)
10.00	Mud w / oil spks in tool	0.05

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

\* Recovery from multiple tests









**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Hess Oil Co  
225 N Market  
STE 300  
Wichita, Ks. 67202  
ATTN: Jamie Hess

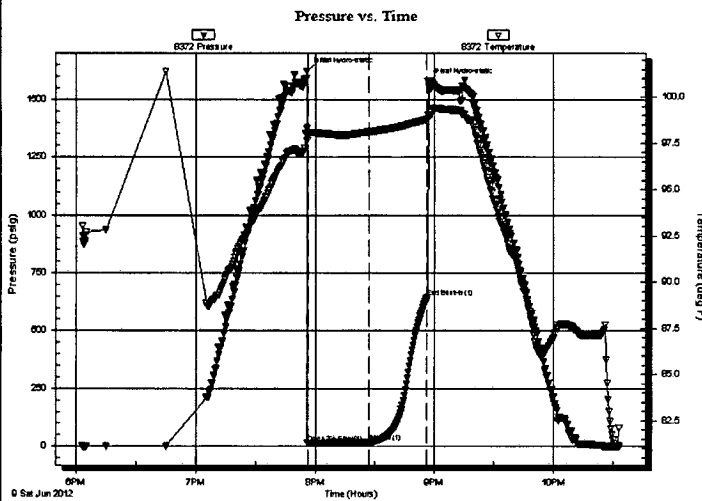
**20-7s-17w Rooks**  
**Kriley "B" #5**  
Job Ticket: 47347      **DST#: 4**  
Test Start: 2012.06.09 @ 18:03:05

## GENERAL INFORMATION:

Formation: **Arbuckle**  
Deviated: No Whipstock:      ft (KB)  
Time Tool Opened: 19:56:00  
Time Test Ended: 22:33:29  
Test Type: Conventional Bottom Hole (Reset)  
Tester: Andy Carreira  
Unit No: 39  
Interval: **3285.00 ft (KB) To 3296.00 ft (KB) (TVD)**  
Reference Elevations: 1773.00 ft (KB)  
Total Depth: 3296.00 ft (KB) (TVD)      1768.00 ft (CF)  
Hole Diameter: 7.88 inches Hole Condition: Fair      KB to GR/CF: 5.00 ft

**Serial #: 8372      Outside**  
Press@RunDepth: 15.90 psig @ 3286.00 ft (KB)      Capacity: 8000.00 psig  
Start Date: 2012.06.09      End Date: 2012.06.09      Last Calib.: 2012.06.09  
Start Time: 18:03:05      End Time: 22:33:29      Time On Btm: 2012.06.09 @ 19:55:50  
Time Off Btm: 2012.06.09 @ 20:56:50

**TEST COMMENT:** IF:(30min) Blow died in 2 min.  
                              IISt:(30min) No Return, Pulled Tool



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1621.74	98.30	Initial Hydro-static
1	14.07	97.65	Open To Flow (1)
32	15.90	98.09	Shut-In(1)
61	643.71	98.76	End Shut-In(1)
61	1575.97	98.99	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
3.00	Mud w / oil spks in tool	0.01

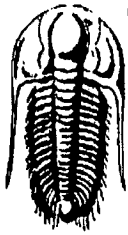
\* Recovery from multiple tests

## Gas Rates

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







**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Hess Oil Co  
225 N Market  
STE 300  
Wichita, Ks. 67202  
ATTN: Jamie Hess

**20-7s-17w Rooks**  
**Kriley "B" #5**  
Job Ticket: 47347      **DST#: 4**  
Test Start: 2012.06.09 @ 18:03:05

## Mud and Cushion Information

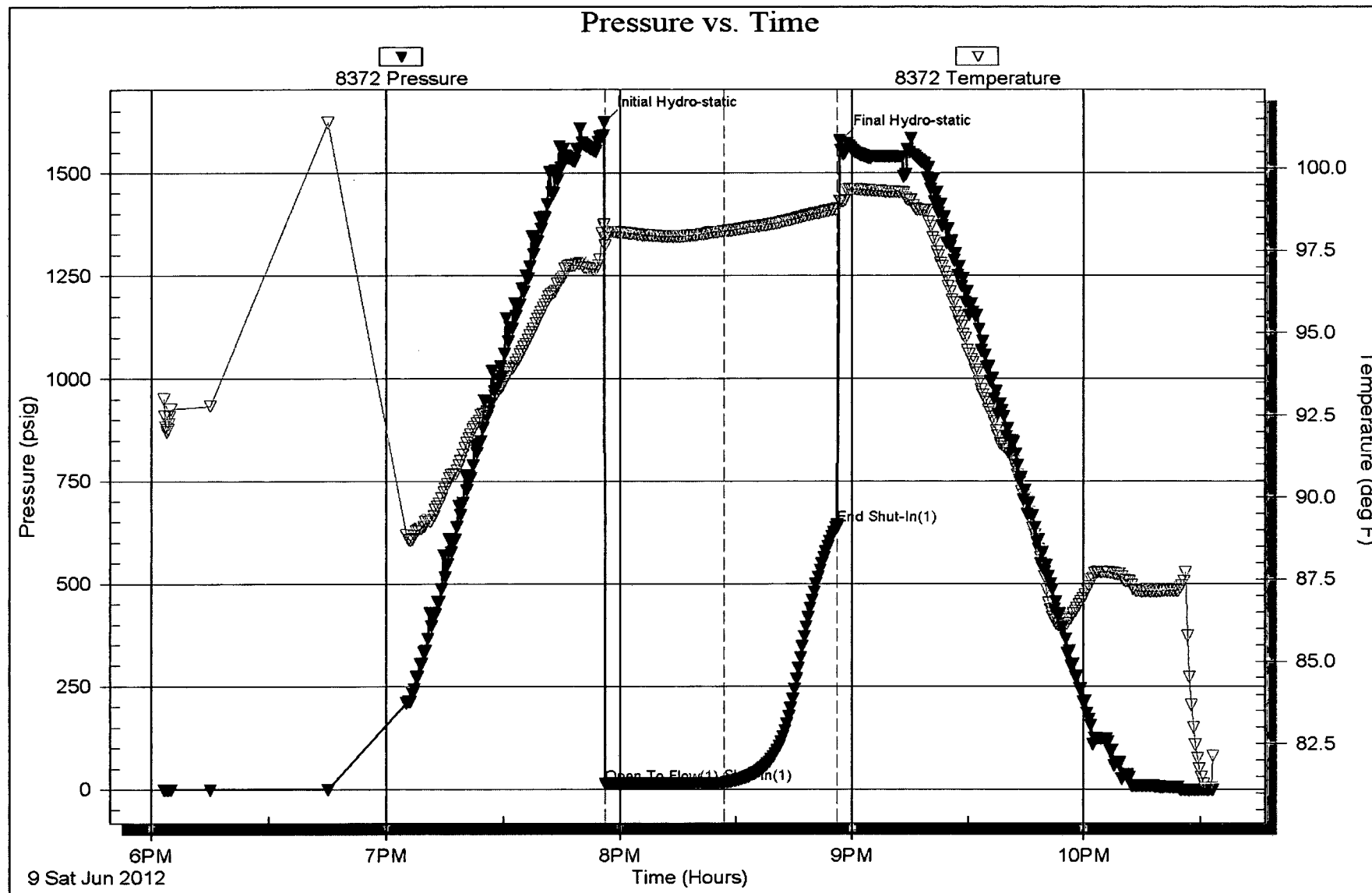
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 55.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.79 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 2100.00 ppm			
Filter Cake: inches			

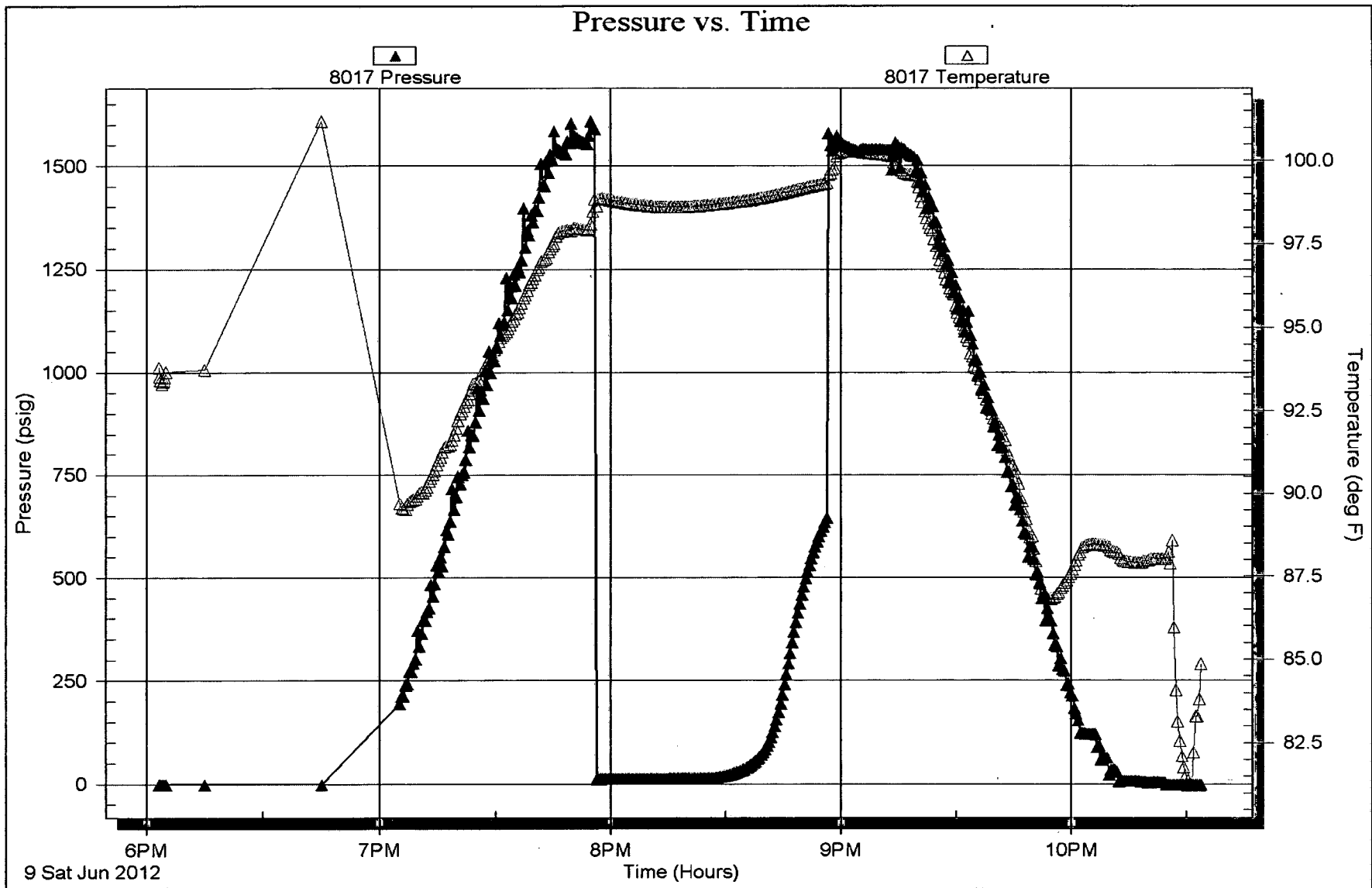
## Recovery Information

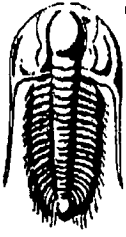
Recovery Table

Length ft	Description	Volume bbl
3.00	Mud w/ oil spks in tool	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:







**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Hess Oil Co  
225 N Market  
STE 300  
Wichita, Ks. 67202  
ATTN: Jamie Hess

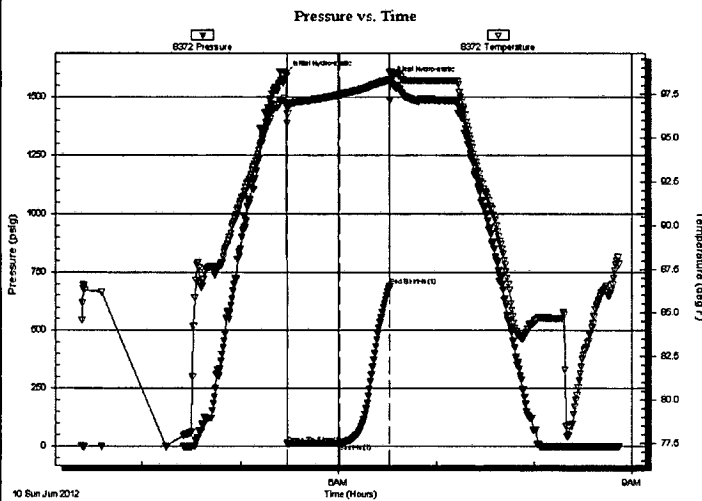
**20-7s-17w Rooks**  
**Kriley "B" #5**  
Job Ticket: 47348      **DST#: 5**  
Test Start: 2012.06.10 @ 03:23:05

## GENERAL INFORMATION:

Formation: **Arbuckle**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 05:28:40  
Time Test Ended: 08:52:29  
Test Type: Conventional Bottom Hole (Reset)  
Tester: Andy Carreira  
Unit No: 39  
Interval: **3294.00 ft (KB) To 3306.00 ft (KB) (TVD)**  
Reference Elevations: 1773.00 ft (KB)  
Total Depth: 3306.00 ft (KB) (TVD) 1768.00 ft (CF)  
Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 5.00 ft

**Serial #: 8372      Outside**  
Press@RunDepth: 13.43 psig @ 3295.00 ft (KB) Capacity: 8000.00 psig  
Start Date: 2012.06.10 End Date: 2012.06.10 Last Calib.: 2012.06.10  
Start Time: 03:23:05 End Time: 08:52:29 Time On Btm: 2012.06.10 @ 05:27:40  
Time Off Btm: 2012.06.10 @ 06:32:00

**TEST COMMENT:** IF:(30min) Blow died in 2 min  
IS:(30min) No Return Pulled Tool



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1598.28	96.97	Initial Hydro-static
1	11.18	95.84	Open To Flow (1)
33	13.43	97.47	Shut-In(1)
64	688.16	98.33	End Shut-In(1)
65	1571.36	98.81	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
1.00	Mud w / oil spks in tool	0.00

\* Recovery from multiple tests

## Gas Rates

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



