



KANSAS CORPORATION COMMISSION 1085105
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 # _____

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 Recompletion Date Date Reached TD Completion Date or 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: _____



1085105

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 <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input 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 type="checkbox"/> Sample Name Top Datum
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CASING RECORD <input 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

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> 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
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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> _____
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Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
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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)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____ <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Hess Oil Company
Well Name	Joyce 1
Doc ID	1085105

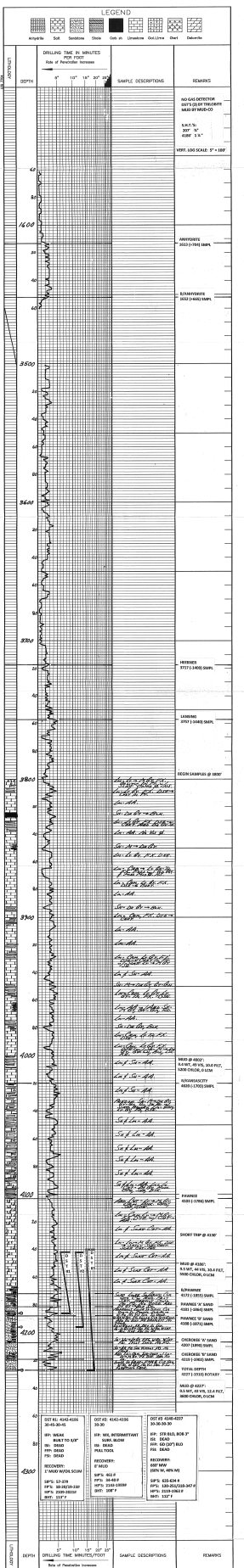
Tops

Name	Top	Datum
Anhydrite	1613	+704
Base Anhydrite	1652	+665
Heebner	3717	-1400
Lansing	3757	-1440
Base Kansas City	4020	-1703
Pawnee	4103	-1786
Fort Scott	4166	-1849
Pawnee A Sand	4181	-1864
Pawnee B Sand	4188	-1871
Cherokee A Sand	4207	-1890
Cherokee B Sand	4219	-1902
RTD	4227	-1910

JERRY A. SMITH
 CERTIFIED PROFESSIONAL GEOPHYSICIST
 STATE OF MISSISSIPPI

EMPLOYER: MISSISSIPPI GEOLOGICAL SURVEY
 JOB TITLE: SENIOR GEOPHYSICIST
 LICENSE NO.: 12345
 EXPIRES: 12/31/2024

DATE: 01/15/2024
 TIME: 10:00 AM
 LOCATION: JACKSON, MISSISSIPPI



COMPANY: MISSISSIPPI GEOLOGICAL SURVEY
 LOCATION: JACKSON, MISSISSIPPI
 COUNTY: HANCOCK

ALLIED OIL & GAS SERVICES, LLC 053524

Federal Tax I.D.# 20-5975804

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

SERVICE POINT:
Great Bend, KS

DATE <u>5-1-12</u>	SEC <u>71</u>	TWP <u>N04</u>	RANGE <u>E12W</u>	CALLED OUT	ON LOCATION	JOB START <u>11:30 am</u>	JOB FINISH <u>11:30 pm</u>
LEASE <u>Joyce</u>	WELL # <u>1</u>	LOCATION <u>McPherson, KS West</u>		COUNTY <u>McPherson</u>	STATE <u>KS</u>		
OLD OR NEW (Circle one)		to <u>11' 25'</u> 3' north <u>1/2</u> west <u>South</u> into					

CONTRACTOR Waltman
 TYPE OF JOB Surface
 HOLE SIZE 12 1/4" T.D. 207
 CASING SIZE 8 5/8" DEPTH 207
 TUBING SIZE DEPTH
 DRILL PIPE DEPTH
 TOOL DEPTH
 PRES. MAX MINIMUM
 MEAS. LINE SHOE JOINT
 CEMENT LEFT IN CSG. 15 FT
 PERFS.
 DISPLACEMENT 12.25 cu ft

OWNER Hess Oil Co.
 CEMENT AMOUNT ORDERED 150 yds.
1 1/4% A 35 pack 2% gel
 COMMON 150 @ 16.25 2,437.50
 POZMIX @
 GEL 3 @ 21.25 63.75
 CHLORIDE 5 @ 58.20 291.00
 ASC @
 HANDLING 162.9 @ 2.10 342.09
 MILEAGE 7.4 x 35 @ 2.35 173.15
 TOTAL 3,742.92

EQUIPMENT

PUMP TRUCK CEMENTER Gregg
 # 366 HELPER John
 BULK TRUCK DRIVER Kevin
 # 578
 BULK TRUCK DRIVER

REMARKS:

Pipe on bottom break circ.
1 1/4" dia. 12 1/4" x 207' 207' 207'
with 150 yds Class A 35 pack 2% gel
gel Displacement 12.25 cu ft. 4375'
Shut in - Cement disk circulates
Rig down
Plug down @ 11:30 pm

SERVICE

DEPTH OF JOB
 PUMP TRUCK CHARGE 1125.00
 EXTRA FOOTAGE @
 MILEAGE Hvm 70 @ 7.00 490.00
 MANIFOLD @
Lvm 70 @ 4.00 280.00

CHARGE TO: Hess Oil Co.
 STREET
 CITY STATE ZIP

TOTAL 1895.00

PLUG & FLOAT EQUIPMENT

@
 @
 @
 @
 @
 TOTAL

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 Gregg Sprock
 SIGNATURE X John Sprock
Thank you!

SALES TAX (If Any)
 TOTAL CHARGES 5,637.99
 DISCOUNT 7% 20% 1,816.91 IF PAID IN 30 DAYS
3,821.08

ALLIED OIL & GAS SERVICES, LLC 053528

Federal Tax I.D.# 20-5975804

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

SERVICE POINT:
Westland, KS

DATE	SEC	TWP	RANGE	CALLED OUT	ON LOCATION	JOB START	JOB FINISH
5-8-12	11	16S	21W			7:15 PM	8:15 PM
LEASE #	WELL #		LOCATION		COUNTY	STATE	
Joyce	1		McCracken, KS North West		West	KS	
OLD OR (NEW) (Circle one)			Sweet 3 north, 1/2 west, south into				

CONTRACTOR	OWNER
<u>J. J. G. / J. J. G.</u>	<u>Hess Oil Co.</u>
TYPE OF JOB	
<u>Safety Plug</u>	
HOLE SIZE	T.D.
<u>7 7/8</u>	<u>4221</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>170 gals 60/40</u>	
<u>490 gal 1/4 floccul</u>	
COMMON	POZMIX
<u>162</u>	<u>108</u>
@ 16.25	@ 8.50
<u>2,632.50</u>	<u>918.00</u>
GEL	CHLORIDE
<u>9</u>	
@ 21.25	
<u>191.25</u>	
ASC	
<u>floucul 67</u>	@ 2.70
	<u>180.90</u>
HANDLING	MILEAGE
<u>289.46</u>	<u>12.09 x 35 x</u>
@ 2.10	@ 2.35
<u>607.86</u>	<u>994.75</u>
TOTAL <u>5610.05</u>	

EQUIPMENT

PUMP TRUCK #	CEMENTER HELPER
<u>398</u>	<u>Gary & Tom P</u>
BULK TRUCK #	DRIVER
<u>344 190</u>	<u>Kenneth</u>
BULK TRUCK #	DRIVER

REMARKS:

1st plug mix	50	4ks	C	1670'
2nd plug mix	80	5ks	G	960'
3rd plug mix	40	5ks	C	510'
4th plug mix	30	1ks	C	110'
5th plug mix	20	5ks	G	60'
Wire 30.5ks in Rathole				

SERVICE

DEPTH OF JOB	EXTRA FOOTAGE
<u>1670</u>	<u>1250.00</u>
PUMP TRUCK CHARGE	MILEAGE
	<u>lum 70</u>
@ 7.00	@ 4.00
<u>490.00</u>	<u>280.00</u>
MANIFOLD	
<u>lum 70</u>	
@ 4.00	
<u>280.00</u>	
TOTAL <u>2020.00</u>	

CHARGE TO: Hess Oil Co.
STREET _____
CITY _____ STATE _____ ZIP _____

PLUG & FLOAT EQUIPMENT

TOTAL _____		

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 _____
SIGNATURE X [Signature]
Thank You!

SALES TAX (If Any)	
TOTAL CHARGES	<u>7,630.05</u>
DISCOUNT	<u>2,408.21</u>
IF PAID IN 30 DAYS	
<u>5,221.84</u>	



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Hess Oil Company
 PO Box 1009
 McPherson, KS. 67460
 ATTN: Jerry Smith

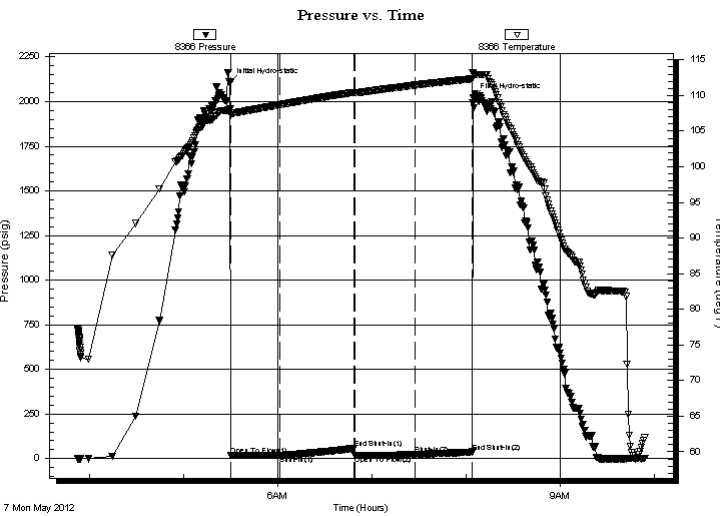
11-16s-21w Ness, KS
Joyce #1
 Job Ticket: 47284 **DST#: 1**
 Test Start: 2012.05.07 @ 03:52:22

GENERAL INFORMATION:

Formation: **Cherokee Sand**
 Deviated: No Whipstock: 0.00 ft (KB)
 Time Tool Opened: 05:29:52
 Time Test Ended: 09:54:07
 Interval: **4142.00 ft (KB) To 4186.00 ft (KB) (TVD)**
 Total Depth: 4186.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Jason McLemore
 Unit No: 54
 Reference Elevations: 2317.00 ft (KB)
 2312.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 8366 Inside
 Press @ Run Depth: 23.25 psig @ 4181.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.05.07 End Date: 2012.05.07 Last Calib.: 2012.05.07
 Start Time: 03:52:24 End Time: 09:54:07 Time On Btm: 2012.05.07 @ 05:29:37
 Time Off Btm: 2012.05.07 @ 08:04:37

TEST COMMENT: IFP-Weak Surface Blow , Built to 3/8"
 ISI-Dead
 FFP-Dead
 FSI-Dead



PRESSURE SUMMARY

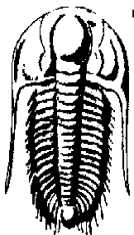
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2108.80	108.08	Initial Hydro-static
1	17.55	107.29	Open To Flow (1)
32	19.73	108.69	Shut-In(1)
79	57.38	110.43	End Shut-In(1)
80	18.83	110.42	Open To Flow (2)
118	23.25	111.45	Shut-In(2)
155	36.95	112.34	End Shut-In(2)
155	2021.34	113.07	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1.00	Mud W/Oil Scum	0.00

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Hess Oil Company
 PO Box 1009
 McPherson, KS. 67460
 ATTN: Jerry Smith

11-16s-21w Ness, KS
Joyce #1
 Job Ticket: 47284 **DST#: 1**
 Test Start: 2012.05.07 @ 03:52:22

GENERAL INFORMATION:

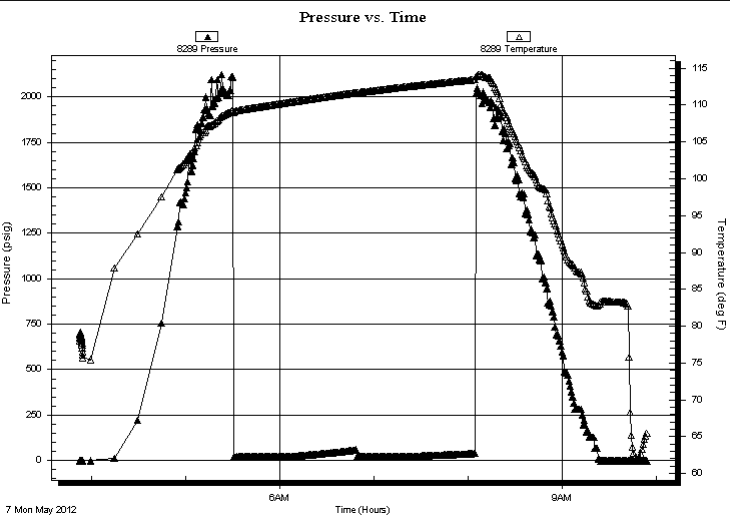
Formation: **Cherokee Sand**
 Deviated: No Whipstock: 0.00 ft (KB)
 Time Tool Opened: 05:29:52
 Time Test Ended: 09:54:07
 Interval: **4142.00 ft (KB) To 4186.00 ft (KB) (TVD)**
 Total Depth: 4186.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good

Test Type: Conventional Bottom Hole (Initial)
 Tester: Jason McLemore
 Unit No: 54
 Reference Elevations: 2317.00 ft (KB)
 2312.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 8289 Outside

Press @ Run Depth: psig @	4181.00 ft (KB)	Capacity:	8000.00 psig
Start Date:	2012.05.07	End Date:	2012.05.07
Start Time:	03:52:09	End Time:	09:53:52
		Time On Btm:	
		Time Off Btm:	

TEST COMMENT: IFP-Weak Surface Blow , Built to 3/8"
 ISI-Dead
 FFP-Dead
 FSI-Dead



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
1.00	Mud W/Oil Scum	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Hess Oil Company
PO Box 1009
McPherson, KS. 67460
ATTN: Jerry Smith

11-16s-21w Ness, KS
Joyce #1
Job Ticket: 47284 **DST#: 1**
Test Start: 2012.05.07 @ 03:52:22

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: 49.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.99 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 5200.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1.00	Mud W/Oil Scum	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:

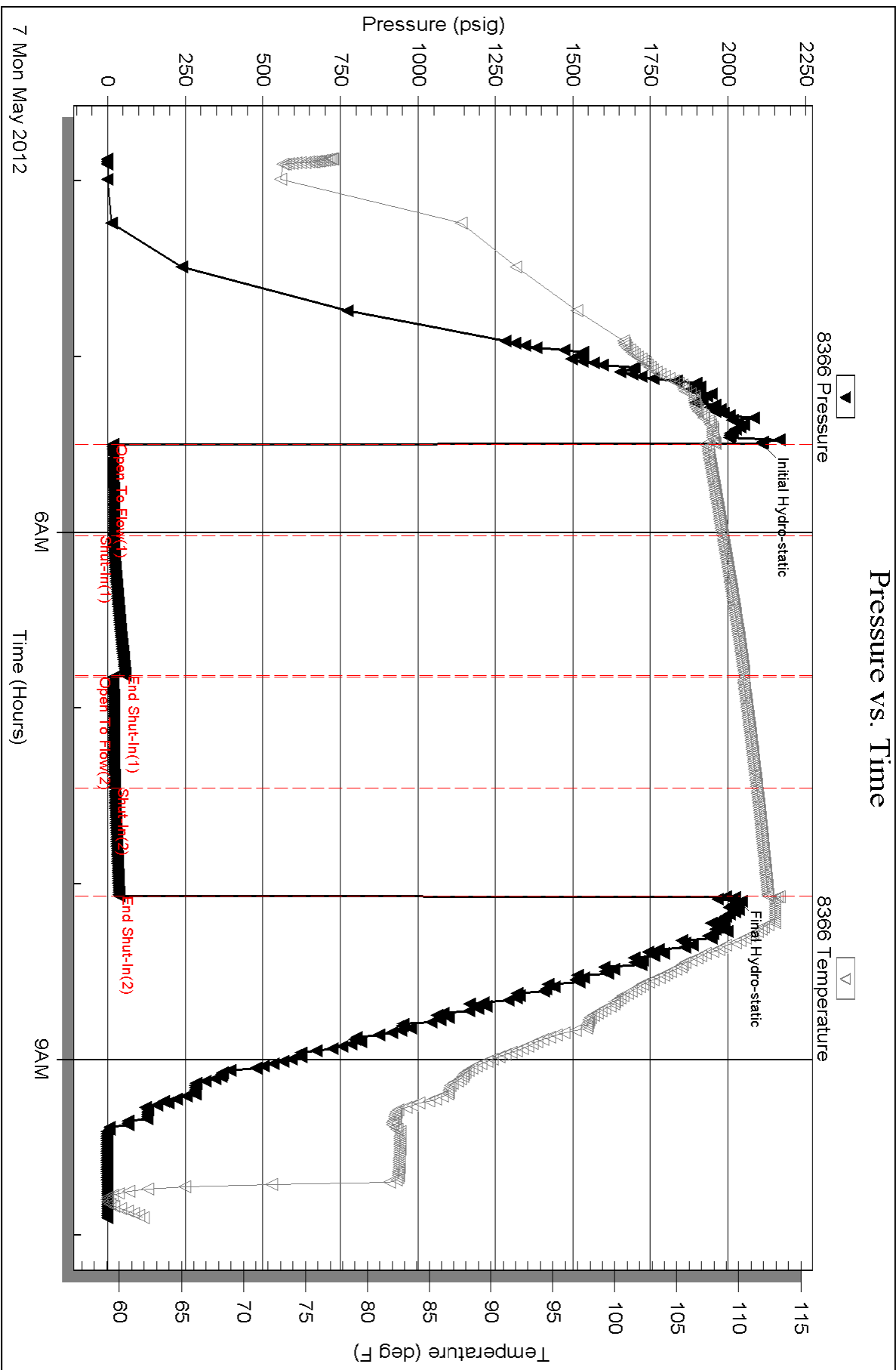
Serial #: 8366

Inside

Hess Oil Company

Joyce #1

DST Test Number: 1

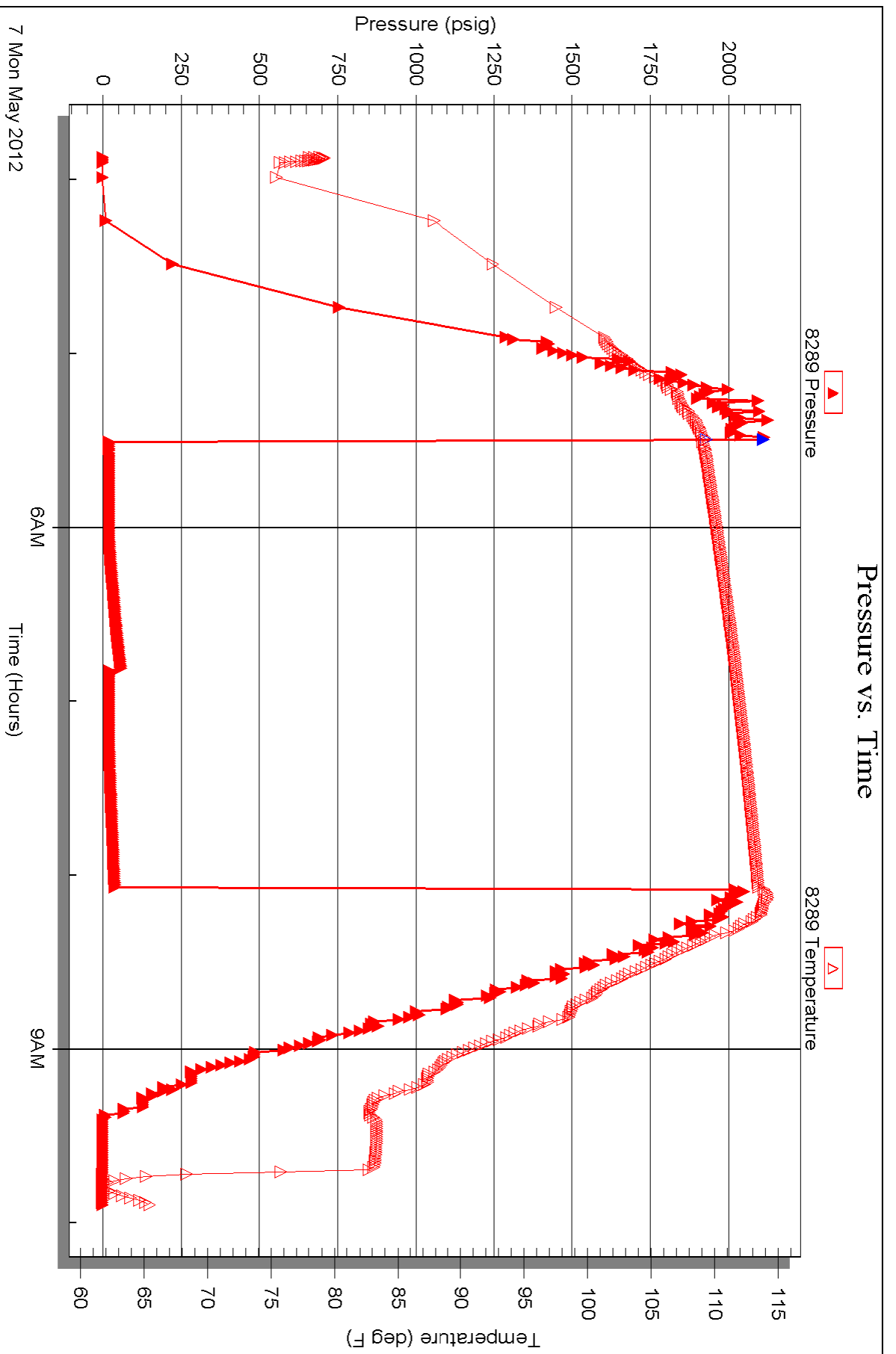


Serial #: 8289

Outside Hess Oil Company

Joyce #1

DST Test Number: 1





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Hess Oil Company
PO Box 1009
McPherson, KS. 67460
ATTN: Jerry Smith

11-16s-21w-Ness

Joyce #1

Job Ticket: 47285

DST#: 2

Test Start: 2012.05.07 @ 16:39:28

GENERAL INFORMATION:

Formation: **Cherokee Sand**

Deviated: No Whipstock: 0.00 ft (KB)

Time Tool Opened: 18:32:58

Time Test Ended: 21:27:28

Test Type: Conventional Bottom Hole (Reset)

Tester: Jason McLemore

Unit No: 54

Interval: **4142.00 ft (KB) To 4196.00 ft (KB) (TVD)**

Reference Elevations: 2317.00 ft (KB)

Total Depth: 4196.00 ft (KB) (TVD)

2312.00 ft (CF)

Hole Diameter: 7.80 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8366

Inside

Press @ Run Depth: 39.89 psig @ 4181.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.05.07

End Date:

2012.05.07

Last Calib.:

2012.05.07

Start Time: 16:39:30

End Time:

21:27:28

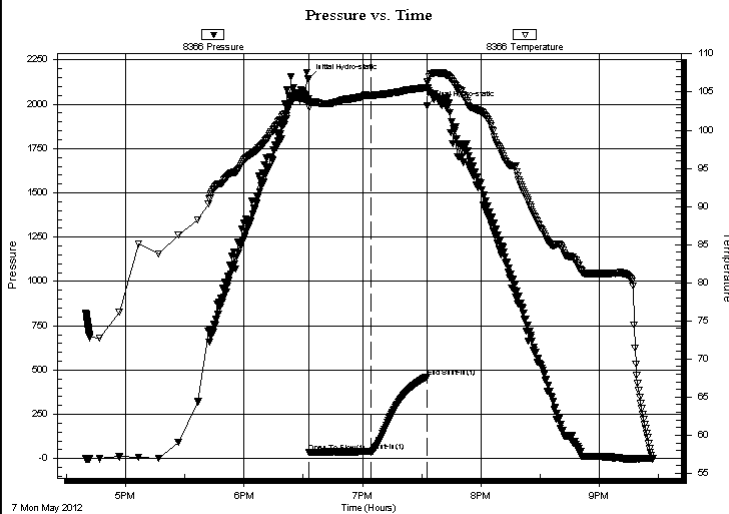
Time On Btm:

2012.05.07 @ 18:32:43

Time Off Btm:

2012.05.07 @ 19:32:43

TEST COMMENT: IFP-Weak Intermittant Surface Blow
ISI-Dead



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2143.07	104.16	Initial Hydro-static
1	34.43	103.04	Open To Flow (1)
32	39.89	104.54	Shut-In(1)
60	461.05	105.60	End Shut-In(1)
60	1989.36	106.37	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
8.00	Drilling Mud	0.04

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Hess Oil Company
PO Box 1009
McPherson, KS. 67460
ATTN: Jerry Smith

11-16s-21w-Ness
Joyce #1
Job Ticket: 47285 **DST#: 2**
Test Start: 2012.05.07 @ 16:39:28

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 10.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 44.00 sec/qt	Cushion Volume: bbl		
Water Loss: 10.39 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 5500.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
8.00	Drilling Mud	0.039

Total Length: 8.00 ft Total Volume: 0.039 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Serial #: 8366

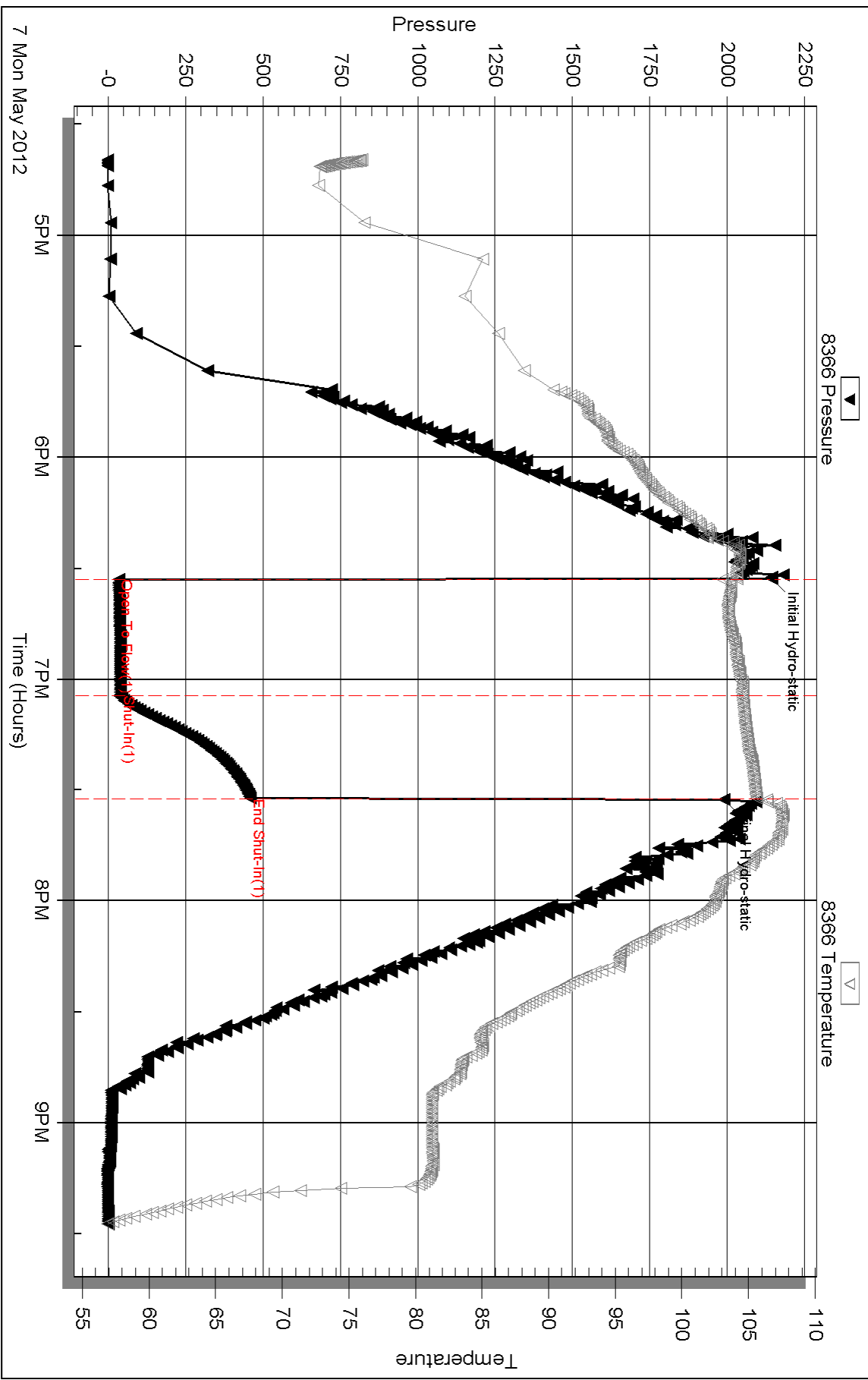
Inside

Hess Oil Company

Joyce #1

DST Test Number: 2

Pressure vs. Time



Triobite Testing, Inc

Ref. No: 47285

Printed: 2012.05.08 @ 07:52:23



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Hess Oil Company
 PO Box 1009
 McPherson, KS. 67460
 ATTN: Jerry Smith

11-16s-21w-Ness
Joyce #1
 Job Ticket: 47286 **DST#: 3**
 Test Start: 2012.05.08 @ 06:40:28

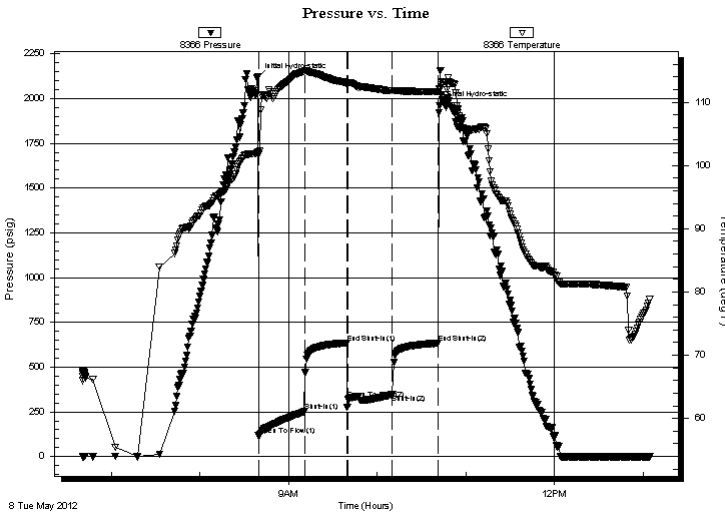
GENERAL INFORMATION:

Formation: **Cherokee Sand**
 Deviated: No Whipstock: 0.00 ft (KB)
 Time Tool Opened: 08:39:28
 Time Test Ended: 13:04:43
 Interval: **4140.00 ft (KB) To 4227.00 ft (KB) (TVD)**
 Total Depth: 4227.00 ft (KB) (TVD)
 Hole Diameter: 7.80 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Jason McLemore
 Unit No: 54
 Reference Elevations: 2317.00 ft (KB)
 2312.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 8366 Inside
 Press @ Run Depth: 346.51 psig @ 4209.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.05.08 End Date: 2012.05.08 Last Calib.: 2012.05.08
 Start Time: 06:40:30 End Time: 13:04:43 Time On Btm: 2012.05.08 @ 08:38:58
 Time Off Btm: 2012.05.08 @ 10:42:13

TEST COMMENT: IFP-Strong, BOB in 3 Min.
 ISI-Dead
 FFP-Good Blow, Built to 10"
 FSI-Dead

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2119.45	102.17	Initial Hydro-static
1	119.54	101.66	Open To Flow (1)
32	251.27	114.89	Shut-In(1)
61	635.37	113.06	End Shut-In(1)
61	318.09	112.97	Open To Flow (2)
92	346.51	111.78	Shut-In(2)
123	633.94	111.66	End Shut-In(2)
124	1962.65	112.00	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
660.00	Muddy Water	7.07

* 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 Company
PO Box 1009
McPherson, KS. 67460
ATTN: Jerry Smith

11-16s-21w-Ness
Joyce #1
Job Ticket: 47286 **DST#: 3**
Test Start: 2012.05.08 @ 06:40:28

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:	24000 ppm
Viscosity: 49.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.97 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 5200.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
660.00	Muddy Water	7.072

Total Length: 660.00 ft Total Volume: 7.072 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Serial #: 8366

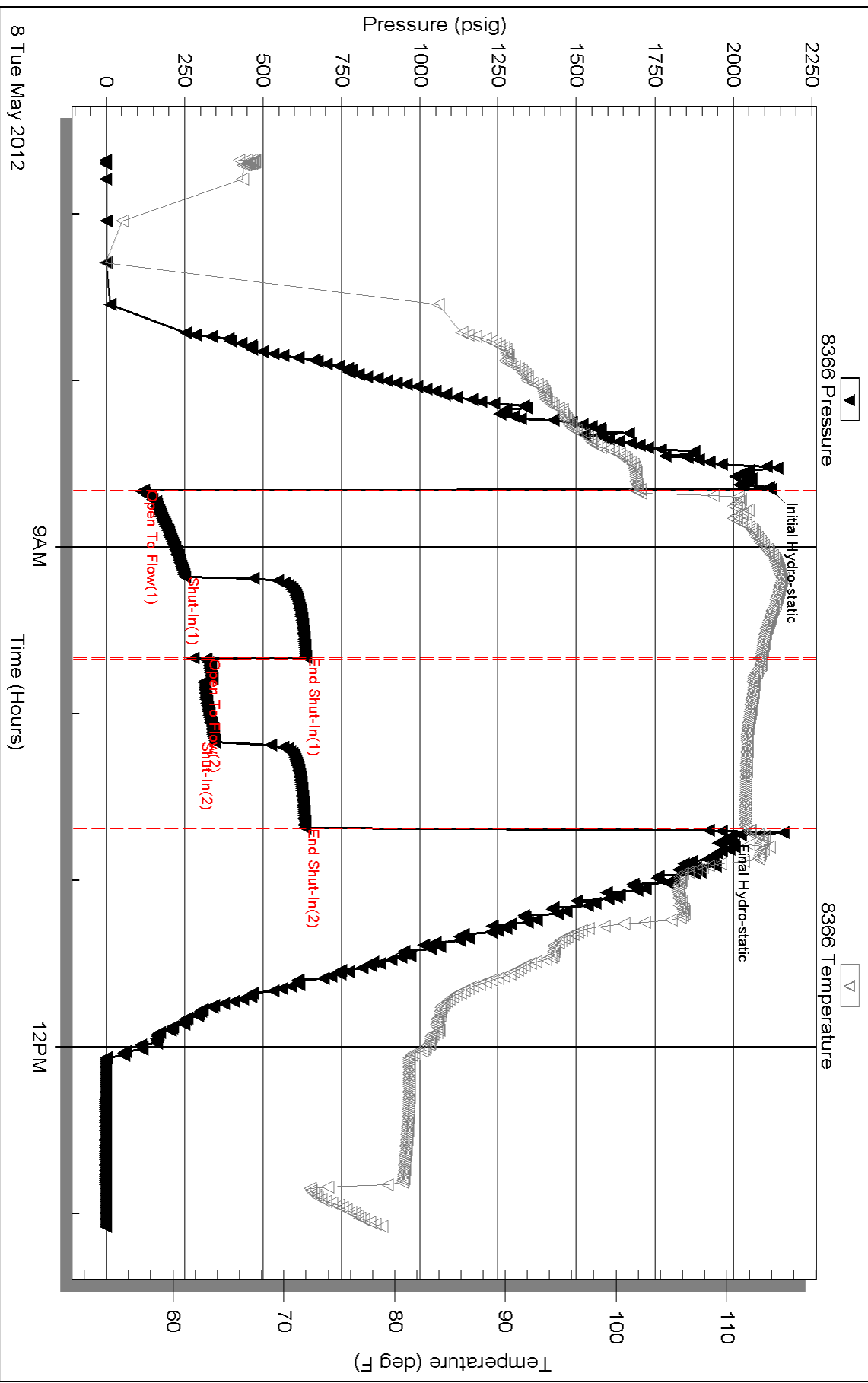
Inside

Hess Oil Company

Joyce #1

DST Test Number: 3

Pressure vs. Time



Triobite Testing, Inc

Ref. No: 47286

Printed: 2012.05.08 @ 14:01:27