

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 5663
Name: Hess Oil Company
Address 1: P. O. Box 1009
Address 2: _____
City: McPherson State: KS Zip: 67460 + 1009
Contact Person: Bryan Hess
Phone: (620) 241-4640
CONTRACTOR: License # 4958
Name: Mallard JV, Inc.
Wellsite Geologist: James C. Hess
Purchaser: _____

Designate Type of Completion:
 New Well _____ Re-Entry _____ Workover _____
_____ Oil _____ SWD _____ SLOW
_____ Gas _____ ENHR _____ SIGW
_____ CM (Coal Bed Methane) _____ Temp. Abd.
 Dry _____ Other _____
(Core, WSW, Expl., Cathodic, 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
_____ Plug Back: _____ Plug Back Total Depth
_____ Commingled _____ Docket No.: _____
_____ Dual Completion _____ Docket No.: _____
_____ Other (SWD or Enhr.?) _____ Docket No.: _____
2/11/2010 2/19/2010 2/20/2010
Spud Date or Date Reached TD Completion Date or
Recompletion Date Recompletion Date

API No. 15 - 083-21628-00-00
Spot Description: Approx.
SE SE NE SW Sec. 33 Twp. 22 S. R. 23 East West
1380 Feet from North / South Line of Section
2550 Feet from East / West Line of Section
Footages Calculated from Nearest Outside Section Corner:
 NE NW SE SW
County: Hodgeman
Lease Name: Charles Well #: 1
Field Name: _____
Producing Formation: _____
Elevation: Ground: 2280' Kelly Bushing: 2285'
Total Depth: 4598' Plug Back Total Depth: _____
Amount of Surface Pipe Set and Cemented at: 213' 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 P+A AH II NCR
(Data must be collected from the Reserve Pit) 4-9-10
Chloride content: _____ ppm Fluid volume: _____ bbls
Dewatering method used: _____
Location of fluid disposal if hauled offsite: _____
Operator Name: _____
Lease Name: _____ License No.: _____
Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West
County: _____ Docket No.: _____

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 130 S. Market - Room 2078, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information of side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form (see rule 82-3-107 for confidentiality in excess of 12 months). One copy of all wireline logs and geologist well report shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

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.

Signature: Bryan Hess
Title: President Date: 4/6/2010

Subscribed and sworn to before me this 6th day of April, 20 10.

Notary Public: Carol A. Nickel
Date Commission Expires: _____



KCC Office Use ONLY

Letter of Confidentiality Received
If Denied, Yes Date: _____

Wireline Log Received

Geologist Report Received

UIC Distribution

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Operator Name: Hess Oil Company Lease Name: Charles Well #: 1
 Sec. 33 Twp. 22 S. R. 23 East West County: Hodgeman

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 copy of all Electric Wireline 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 type="checkbox"/> Yes <input checked="" 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 <i>(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 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
Surface	12-1/4"	8-5/8"	20	213'	common	150	2% gel, 3% cc

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
_____ Perforate _____ Protect Casing _____ Plug Back TD _____ Plug Off Zone				

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <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 (Explain)
Estimated Production Per 24 Hours	Oil Bbls. Gas Mcf Water Bbls. 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 <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: _____ _____
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HESS OIL COMPANY

P.O. Box 1009
McPherson, KS 67460-1009

ACO-1 Completion Form Attachment

Charles #1

Approx. SE SE NE SW
1380' FSL, 2550' FWL
Section 33-22-23W, Hodgeman County
API #15-083-21628-00-00
Elevation 2285' KB

Sample Tops		(datum)
Anhydrite	1482	+803
Base Anhydrite	1509	+776
Heebner	3850	-1565
Lansing	3908	-1623
Stark Shale	4180	-1895
Base Kansas City	4286	-2001
Marmaton	4314	-2029
Pawnee	4406	-2121
Fort Scott	4455	-2170
Miss Warsaw	4549	-2264
RTD	4598	-2313

DST #1: 4515'-4570'. 60-45-30-45. 1" blow died back to ¾"
Recovered 65' OCM (10% O, 90% M), 5' FO
Pressures IH 2273, FH 2211, ISI 104, FSI 71, IF 28-47, FF 46-45

DST #2: 4521'-4581'. 45-45-45-45. IF - 5.25" blow, FF - ¾" blow
Recovered 185' OCM (25% O, 75% M), 40' FO (15% G, 85% O)
Pressures IH 2261, FH 2203, ISI 906, FSI 712, IF 23-76, FF 81-108

DST #3: 4540'-4592'. Missrun, packer failure.

DST #4: 4520'-4592'. 45-45-45-45. IF - 3.5" blow, FF - 1" blow
Rec, 195' VSOCM (5% O, 95% M), 60' VSOCM (10% O, 90% M), 5' FO (5% G, 95% O)
Pressures IH 2250, FH 2198, ISI 1337, FSI 1234, IF 35-109, FF 115-136

DST #5: 4590'-4598'. 30-45-30-45. IF - BOB in 20 min., FF - 4.5" blow
Recovered 480' W, 120' MW, 60' OSM
Pressures IH 2346, FH 2257, ISI 1450, FSI 1450, IF 35-214, FF 215-296

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ALLIED CEMENTING CO., LLC. 036379

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

SERVICE POINT:
Great Bend KS

DATE 2-11-10	SEC. 33	TWP. 22	RANGE 23	CALLED OUT	ON LOCATION	JOB START 7:00 PM	JOB FINISH 7:30 PM
LEASEhold	WELL# 1	LOCATION Jetmore KS 3 East			COUNTY Hodgson	STATE KS	
OLD OR <u>NEW</u> (Circle one)			North into				

CONTRACTOR Mallard OWNER Hess oil CO

TYPE OF JOB Surface

HOLE SIZE 12 1/4 T.D. 213

CASING SIZE 8 5/8 DEPTH 213

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG. 15

PERFS.

DISPLACEMENT 12.50 BBLS

CEMENT

AMOUNT ORDERED 1505x 60/40 3% gel

2% Gel

COMMON	<u>90</u>	@ <u>13.50</u>	<u>1215.00</u>
POZMIX	<u>60</u>	@ <u>7.55</u>	<u>453.00</u>
GEL	<u>3</u>	@ <u>20.25</u>	<u>60.75</u>
CHLORIDE	<u>5</u>	@ <u>51.50</u>	<u>257.50</u>
ASC		@	

EQUIPMENT

PUMP TRUCK CEMENTER Wayne-D

181 HELPER Alvin-R

BULK TRUCK

260 DRIVER Wayne-D

BULK TRUCK

DRIVER

HANDLING	<u>150</u>	@ <u>2.25</u>	<u>337.50</u>
MILEAGE	<u>150x30x10</u>		<u>450.00</u>
TOTAL			<u>2,773.75</u>

REMARKS:

pipe on bottom Break circulation
with Rig mud
hook up To cement line
mix 1505x 60/40 3% gel 2%
Shut Down Release Plus
Displace 12.50 BBLS Fresh water
Cement did circulate shut in
wash up Rig Down

SERVICE

DEPTH OF JOB	<u>213</u>		
PUMP TRUCK CHARGE			<u>991.00</u>
EXTRA FOOTAGE		@	
MILEAGE	<u>30</u>	@ <u>7.00</u>	<u>210.00</u>
MANIFOLD		@	

CHARGE TO: Hess oil CO

STREET _____

CITY _____ STATE _____ ZIP _____

TOTAL 1201.00

PLUG & FLOAT EQUIPMENT

1 wooden plug	@ <u>53.00</u>	<u>53.00</u>
	@	
	@	

To Allied Cementing Co., LLC.
You are hereby requested to rent cementing equipment

ALLIED CEMENTING CO., LLC. 036382

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

SERVICE POINT:
Great Bend

DATE <u>2-20-10</u>	SEC. <u>33</u>	TWP. <u>22</u>	RANGE <u>23</u>	CALLED OUT	ON LOCATION <u>1200 AM</u>	JOB START <u>330 AM</u>	JOB FINISH <u>400 AM</u>
LEASE <u>Charlo</u>		WELL# <u>1</u>	LOCATION <u>Jetmore 38east</u>		COUNTY <u>Hodgson</u>	STATE <u>KS</u>	
<input checked="" type="radio"/> OLD OR NEW (Circle one)			<u>North into</u>				

CONTRACTOR Mallard

TYPE OF JOB Rotary Plus

HOLE SIZE 7 7/8 T.D. 4598

CASING SIZE 4 1/2 DEPTH 1530

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG.

PERFS.

DISPLACEMENT

OWNER Hess oil co

CEMENT

AMOUNT ORDERED 210 sk 60/40 990GEL
1/2 flt seal

COMMON	<u>126</u>	@	<u>13.50</u>	<u>1701.00</u>
POZMIX	<u>84</u>	@	<u>7.55</u>	<u>634.20</u>
GEL	<u>7</u>	@	<u>20.25</u>	<u>141.75</u>
CHLORIDE		@		
ASC		@		
<u>flt seal</u>	<u>52#</u>	@	<u>2.45</u>	<u>127.40</u>
		@		
		@		
		@		
		@		
		@		
HANDLING	<u>210</u>	@	<u>2.25</u>	<u>472.50</u>
MILEAGE	<u>210 x 30 x 10</u>			<u>630.00</u>
TOTAL				<u>3706.85</u>

EQUIPMENT

PUMP TRUCK CEMENTER Wayne - 0

181 HELPER Alvin - R

BULK TRUCK

377 DRIVER Daven

BULK TRUCK

DRIVER

REMARKS:

1st plug mix 50SK Displace 5 BBLs
water 130BBLs mud

2nd plug 60SK mix 50SK
Displace 4 BBLs

3rd plug 240 mix 40SK Dis 1.25

4th plug 60 mix 20SK

Rat hole mix 30SK Mouse mix 20SK
wash up Rig Down

SERVICE

DEPTH OF JOB 1530

PUMP TRUCK CHARGE 990.00

EXTRA FOOTAGE @

MILEAGE 30 @ 7.00 210.00

MANIFOLD @

@

@

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TOTAL 1200.00

CHARGE TO: Hess oil co.

STREET _____

CITY _____ STATE _____ ZIP _____

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PLUG & FLOAT EQUIPMENT

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

HESS OIL COMPANY

225 N. Market, Suite 300

Wichita, Kansas 67202

(316) 263-2243

GEOLOGICAL REPORT

CHARLES #1

1380' FSL, 2550' FWL of

SECTION 33 - 22S - 23W

HODGEMAN COUNTY, KANSAS

Commenced:	2-11-10	Elevations:	2280' GR, 2285' KB
Completed:	2-20-10	Surface Pipe:	8-5/8" @ 212' KB
Contractor:	Mallard J.V.	Production Pipe:	none

One foot drilling time was kept from 1460' to 1540' KB, and from 3700' to rotary total depth. Ten foot drilling samples (wet & dry) were kept from 4300' to RTD.

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

<u>ANHYDRITE</u>	<u>1482</u>	<u>(+803)</u>
<u>BASE ANHYDRITE</u>	<u>1509</u>	<u>(+776)</u>
<u>HEEBNER</u>	<u>3850</u>	<u>(-1565)</u>
<u>LANSING</u>	<u>3908</u>	<u>(-1623)</u>

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HESS OIL COMPANY

225 N. Market, Suite 300

Wichita, Kansas 67202

(316) 263-2243

Charles #1

Page 2

<u>STARK SHALE</u>	<u>4180</u>	<u>(-1895)</u>
<u>BASE KANSAS CITY</u>	<u>4286</u>	<u>(-2001)</u>
<u>MARMATON</u>	<u>4314</u>	<u>(-2029)</u>
<u>PAWNEE</u>	<u>4406</u>	<u>(-2121)</u>
<u>FORT SCOTT</u>	<u>4455</u>	<u>(-2170)</u>
<u>MISSISSIPPI</u>	<u>4549</u>	<u>(-2264)</u>

4549-56' KB Grey, very finely crystalline, dense, dolomite. Fair show of free oil in poor intercrystalline porosity, no odor, fair stain, and a good cut.

4557-66' KB Cream to grey, fine crystalline, dense, dolomite. Good show of free oil in fair "vuggy" and poor intercrystalline porosity, strong odor, good stain, and a very strong cut.

4567-70' KB Good show of free oil in dolomite as above. Some white, sharp & weathered, cherts.

DRILL STEM TEST #1 4515 to 4570' KB 55' Anchor

Blow: 1" in 5min. -- died back to 3/4". 2nd -- no blow.
Times: Open 60, Closed 45, Open 30, Closed 45

Recovered: 5' free oil
65' Oil Cut Mud (10% oil, 90% mud)

Pressures: IH 2207# IF 28 - 47# ISIP 104#
FH 2146# FF 46 - 45# FSIP 71#

4571-76' KB Grey, fine crystalline, dolomite. Good show of free oil in fair "vuggy" and poor intercrystalline porosity, slight odor, good stain, and a strong cut.

DRILL STEM TEST #2 4521 to 4581' KB 60' Anchor

Blow: slow build to 5 1/4". 2nd -- 3/4" max. blow.

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HESS OIL COMPANY

225 N. Market, Suite 300

Wichita, Kansas 67202

(316) 263-2243

Charles #1

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DRILL STEM TEST #2 (cont.)

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

Recovered: 40' Oil
185' Oil Cut Mud (25% oil, 75% Mud)

Pressures: IH 2261# IF 23 - 76# ISIP 906#
FH 2145# FF 81 - 108# FSIP 712#

4577-81' KB Clear, medium grained, fairly rounded, fairly sorted, sandstone clusters & loose grains. (some V.C. sharp & weathered cherts) Good show of free oil in fair intergranular porosity, slight odor, fair stain, and a strong cut.

Note: the above was included in DST #2

4582-92' KB Mostly white and V.C., sharp & weathered, cherts. (some cream - grey finely crystalline, dolomite) Good show of free oil in poor to fair inter-crystalline and "on-edge" porosity, fair odor, fair stain, and a strong cut.

DRILL STEM TEST #3 4540-to 4592' KB 52' Anchor

= MISRUN = !! Packer failure.

DRILL STEM TEST #4 4520 to 4592' KB 72' Anchor

Blow: slow build to 3½". 2nd -- surface blow.

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

Recovered: 5' oil
255' Oil Cut Mud (7% oil 93% Mud)

Pressures: IH 2188# IF 35 - 109# ISIP 1337#
FH 2162# FF 115 - 136# FSIP 1234#

4593-98' KB White, sharp & weathered, chert. Fair show of free oil in fair "on-edge" porosity, fair odor, fair stain, and a good cut.

DRILL STEM TEST #5 4590 to 4598' KB 8' Anchor

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HESS OIL COMPANY

225 N. Market, Suite 300

Wichita, Kansas 67202

(316) 263-2243

Charles #1

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DRILL STEM TEST #5 (cont.)

Blow: Slow build to bottom of bucket in 20 min. 2nd --
slow build to $4\frac{1}{2}$ " .

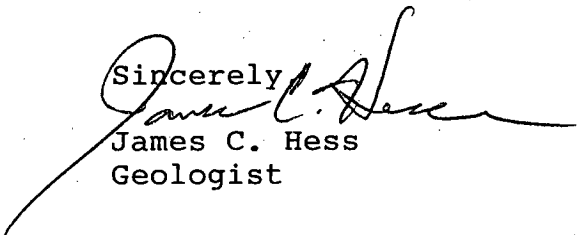
Times: Open 30, Closed 45, Open 30, Closed 45.

Recovered: 60' Oil Cut Mud
600' Mud Cut SW

Pressures:	IH 2207#	IF 35 - 214#	ISIP 1450#
	FH 2211#	FF 215 - 296#	FSIP 1443#

All shows of oil were covered in DSTs 1 - 5. No logs were needed, since the Drill Stem Tests showed no commercial oil recovery. It was decided to plug the #1 Charles.

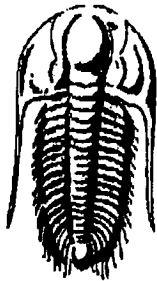
Sincerely,


James C. Hess
Geologist

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**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Hess Oil Co.**

PO Box 1009
Mcperson Ks 67460

ATTN: James Hess

33 22 23 Hodgeman KS

Charles #1

Start Date: 2010.02.17 @ 18:08:23

End Date: 2010.02.18 @ 01:32:53

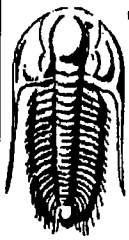
Job Ticket #: 37198 DST #: 1

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

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**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Hess Oil Co.
PO Box 1009
Mcperson Ks 67460
ATTN: James Hess

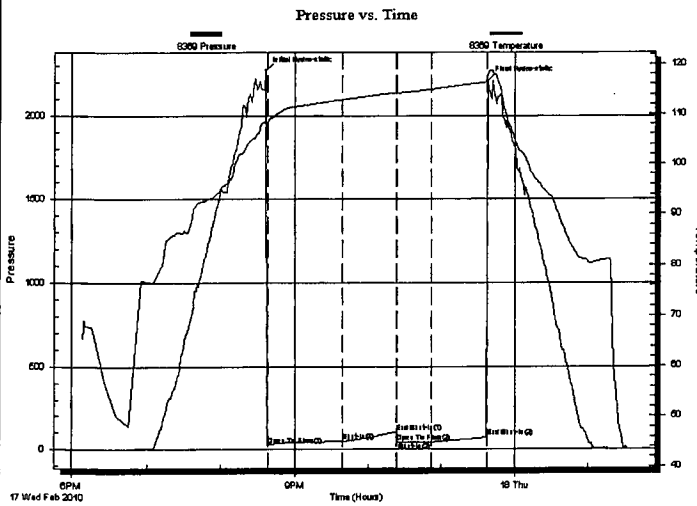
Charles #1
33 22 23 Hodgeman KS
Job Ticket: 37198 DST#: 1
Test Start: 2010.02.17 @ 18:08:23

GENERAL INFORMATION:

Formation: **Miss.**
Deviated: **No** Whipstock: ft (KB)
Time Tool Opened: 20:37:53
Time Test Ended: 01:32:53
Interval: **4515.00 ft (KB) To 4570.00 ft (KB) (TVD)**
Total Depth: **4570.00 ft (KB) (TVD)**
Hole Diameter: **7.88 inches** Hole Condition:
Test Type: **Conventional Bottom Hole**
Tester: **Brett Dickinson**
Unit No: **47**
Reference Elevations: **2284.00 ft (KB)**
2279.00 ft (CF)
KB to GR/CF: **5.00 ft**

Serial #: 8369 **Outside**
Press@RunDepth: **45.83 psig @ 4519.00 ft (KB)** Capacity: **8000.00 psig**
Start Date: **2010.02.17** End Date: **2010.02.18** Last Calib.: **2010.02.18**
Start Time: **18:08:28** End Time: **01:32:52** Time On Btm: **2010.02.17 @ 20:36:53**
Time Off Btm: **2010.02.17 @ 23:37:52**

TEST COMMENT: IF-1in blow died back to 3/4in
ISI-No blow
FF-No blow
FSI-No blow



PRESSURE SUMMARY

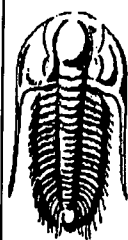
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2273.68	108.63	Initial Hydro-static
1	28.76	107.93	Open To Flow (1)
62	47.46	112.83	Shut-In(1)
106	104.58	114.20	End Shut-In(1)
107	46.04	114.20	Open To Flow (2)
135	45.83	114.91	Shut-In(2)
180	71.68	116.35	End Shut-In(2)
181	2211.40	117.82	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
65.00	SOCM 10%O 90%M	0.32
5.00	FreeOil	0.02

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Hess Oil Co.
PO Box 1009
Mcperson Ks 67460
ATTN: James Hess

Charles #1
33 22 23 Hodgeman KS
Job Ticket: 37198 **DST#: 1**
Test Start: 2010.02.17 @ 18:08:23

Tool Information

Drill Pipe:	Length: 4270.00 ft	Diameter: 3.80 inches	Volume: 59.90 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 2.70 inches	Volume: - bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 245.00 ft	Diameter: 2.25 inches	Volume: 1.20 bbl	Weight to Pull Loose: 65000.00 lb
		Total Volume:	- bbl	Tool Chased ft
Drill Pipe Above KB:	23.00 ft			String Weight: Initial 59000.00 lb
Depth to Top Packer:	4515.00 ft			Final 59000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	55.00 ft			
Tool Length:	78.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4493.00	
Shut In Tool	5.00			4498.00	
Hydraulic tool	5.00			4503.00	
Safety Joint	3.00			4506.00	
Packer	4.00			4510.00	23.00 Bottom Of Top Packer
Packer	5.00			4515.00	
Stubb	1.00			4516.00	
Perforations	3.00			4519.00	
Recorder	0.00	8319	Inside	4519.00	
Recorder	0.00	8369	Outside	4519.00	
Perforations	3.00			4522.00	
Change Over Sub	1.00			4523.00	
Blank Spacing	31.00			4554.00	
Change Over Sub	1.00			4555.00	
Perforations	12.00			4567.00	
Bullnose	3.00			4570.00	55.00 Bottom Packers & Anchor
Total Tool Length:	78.00				

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**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Hess Oil Co.
PO Box 1009
Mcpherson Ks 67460
ATTN: James Hess

Charles #1
33 22 23 Hodgeman KS
Job Ticket: 37198 DST#: 1
Test Start: 2010.02.17 @ 18:08:23

Mud and Cushion Information

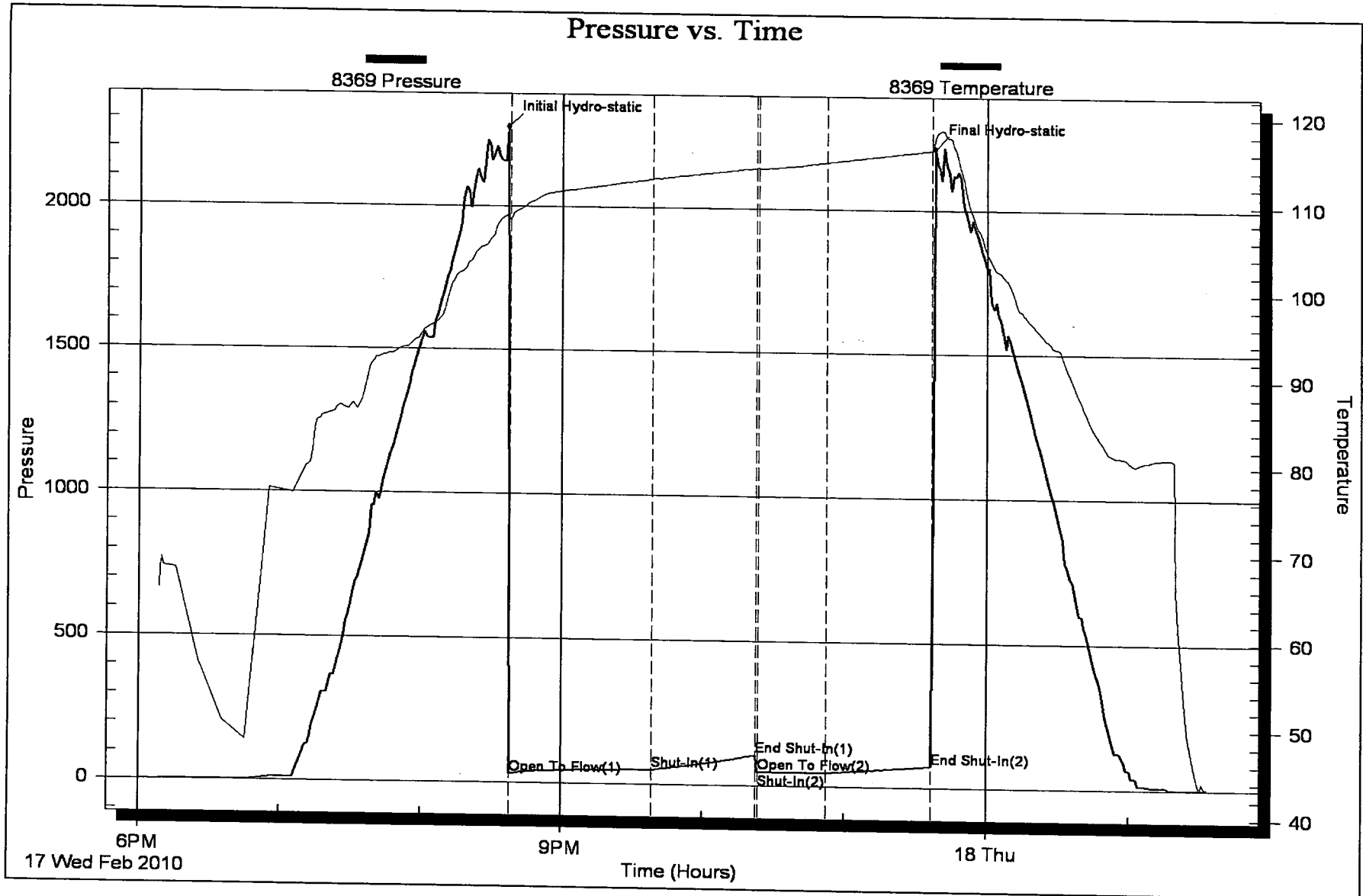
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 48.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.38 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 3000.00 ppm			
Filter Cake: inches			

Recovery Information

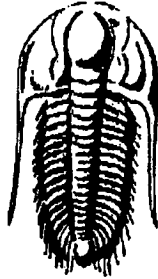
Recovery Table

Length ft	Description	Volume bbl
65.00	SOCM 10%O 90%M	0.320
5.00	FreeOil	0.025

Total Length: 70.00 ft Total Volume: 0.345 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:



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**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Hess Oil Co.**

PO Box 1009
Mcperson Ks 67460

ATTN: James Hess

33 22 23 Hodgeman KS

Charles #1

Start Date: 2010.02.18 @ 06:39:23

End Date: 2010.02.18 @ 15:14:23

Job Ticket #: 37199 DST #: 2

Trilobite Testing, Inc
PO Box 1733 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

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**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Hess Oil Co.
PO Box 1009
Mopheron Ks 67460
ATTN: James Hess

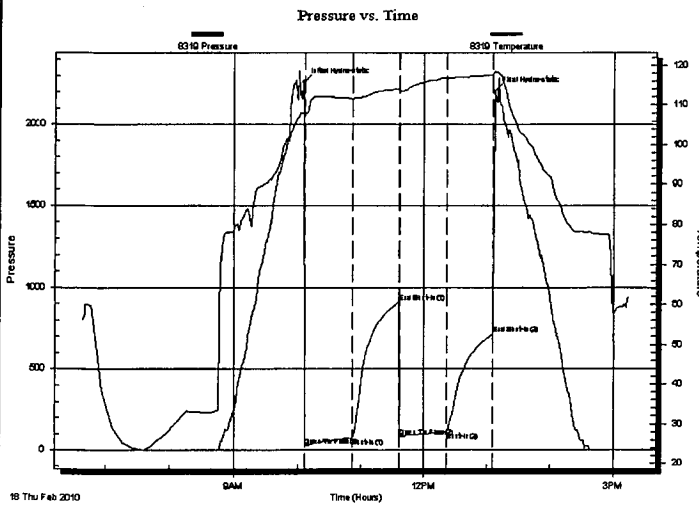
Charles #1
33 22 23 Hodgeman KS
Job Ticket: 37199 **DST#: 2**
Test Start: 2010.02.18 @ 06:39:23

GENERAL INFORMATION:

Formation: **Miss.**
Deviated: **No** Whipstock: ft (KB)
Time Tool Opened: 10:06:23
Time Test Ended: 15:14:23
Interval: **4521.00 ft (KB) To 4581.00 ft (KB) (TVD)**
Total Depth: **4581.00 ft (KB) (TVD)**
Hole Diameter: **7.88 inches** Hole Condition:
Test Type: **Conventional Bottom Hole**
Tester: **Brett Dickinson**
Unit No: **47**
Reference Elevations: **2284.00 ft (KB)**
2279.00 ft (CF)
KB to GR/CF: **5.00 ft**

Serial #: 8319 **Inside**
Press@RunDepth: **108.78 psig @ 4530.00 ft (KB)** Capacity: **8000.00 psig**
Start Date: **2010.02.18** End Date: **2010.02.18** Last Calib.: **2010.02.18**
Start Time: **06:39:28** End Time: **15:14:23** Time On Btm: **2010.02.18 @ 10:05:23**
Time Off Btm: **2010.02.18 @ 13:06:52**

TEST COMMENT: IF-5.25in blow
ISI-No blow
FF-3/4in blow
FSI-No blow



PRESSURE SUMMARY

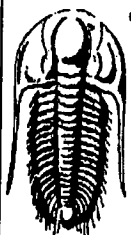
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2261.08	108.20	Initial Hydro-static
1	23.08	107.74	Open To Flow (1)
47	76.55	111.71	Shut-In(1)
91	906.79	114.13	End Shut-In(1)
92	81.84	113.70	Open To Flow (2)
137	108.78	116.69	Shut-In(2)
180	712.52	117.51	End Shut-In(2)
182	2203.57	118.54	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
185.00	OCM 25%O 75%M	0.91
40.00	FreeOil 15%G 85%O	0.20

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Hess Oil Co.
PO Box 1009
Mcperson Ks 67460
ATTN: James Hess

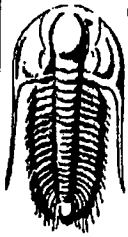
Charles #1
33 22 23 Hodgeman KS
Job Ticket: 37199 DST#: 2
Test Start: 2010.02.18 @ 06:39:23

Tool Information

Drill Pipe:	Length: 4268.00 ft	Diameter: 3.80 inches	Volume: 59.87 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 2.70 inches	Volume: - bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 245.00 ft	Diameter: 2.25 inches	Volume: 1.20 bbl	Weight to Pull Loose:	65000.00 lb
			<u>Total Volume:</u>	Tool Chased	ft
				String Weight: Initial	60000.00 lb
Drill Pipe Above KB:	15.00 ft			Final	61000.00 lb
Depth to Top Packer:	4521.00 ft				
Depth to Bottom Packer:	ft				
Interval between Packers:	60.00 ft				
Tool Length:	83.00 ft				
Number of Packers:	2	Diameter:	6.75 inches		
Tool Comments:					

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4499.00	
Shut In Tool	5.00			4504.00	
Hydraulic tool	5.00			4509.00	
Safety Joint	3.00			4512.00	
Packer	4.00			4516.00	23.00 Bottom Of Top Packer
Packer	5.00			4521.00	
Stubb	1.00			4522.00	
Perforations	8.00			4530.00	
Recorder	0.00	8319	Inside	4530.00	
Recorder	0.00	8369	Outside	4530.00	
Perforations	3.00			4533.00	
Change Over Sub	1.00			4534.00	
Blank Spacing	31.00			4565.00	
Change Over Sub	1.00			4566.00	
Perforations	12.00			4578.00	
Bullnose	3.00			4581.00	60.00 Bottom Packers & Anchor
Total Tool Length:	83.00				

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**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

Hess Oil Co.
PO Box 1009
Mcpherson Ks 67460
ATTN: James Hess

Charles #1
33 22 23 Hodgeman KS
Job Ticket: 37199 **DST#: 2**
Test Start: 2010.02.18 @ 06:39:23

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: 48.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.38 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 3000.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

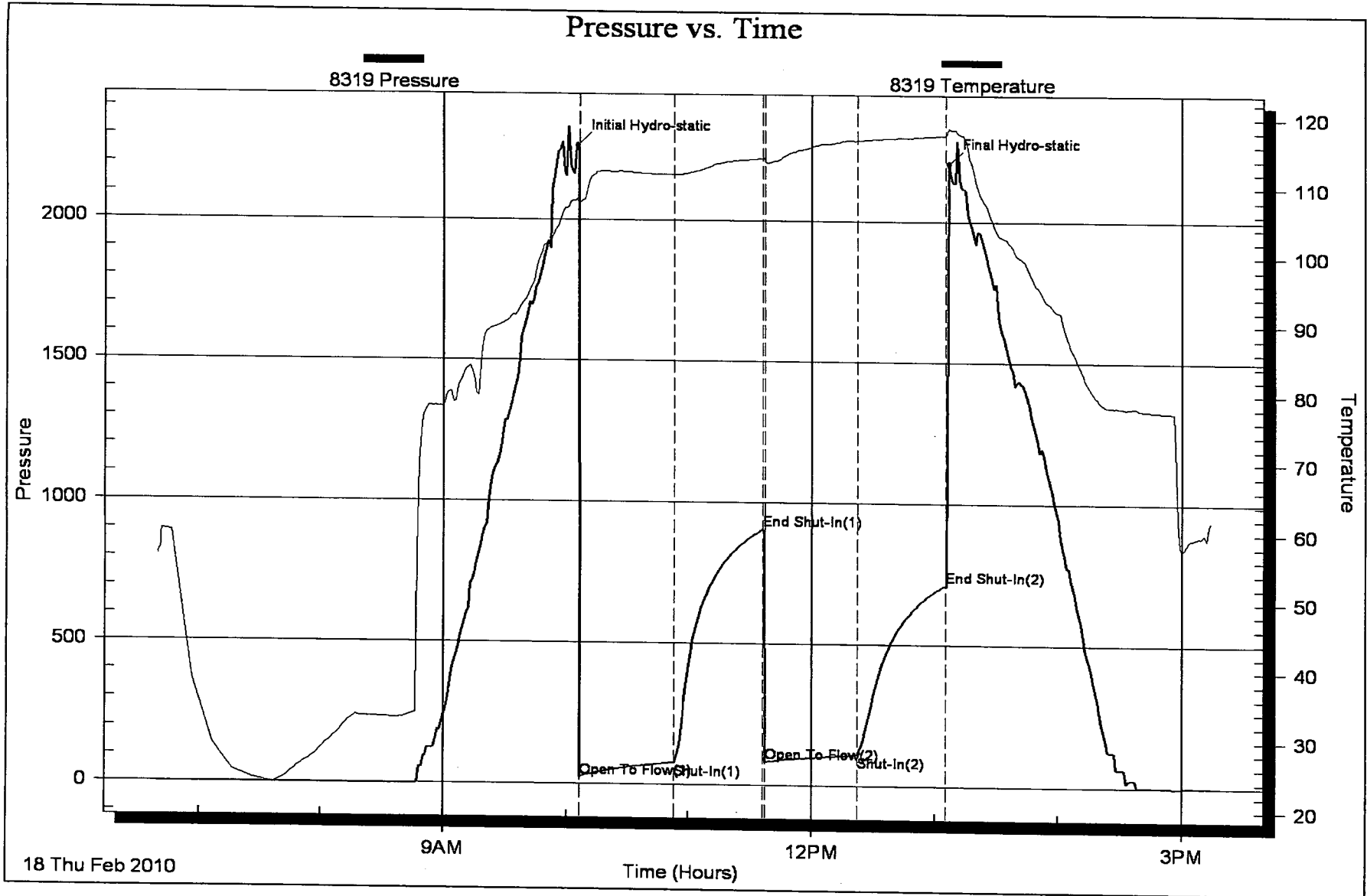
Length ft	Description	Volume bbl
185.00	OCM 25%O 75%M	0.910
40.00	FreeOil 15%G 85%O	0.197

Total Length: 225.00 ft Total Volume: 1.107 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

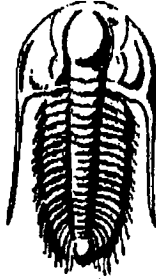
Recovery Comments:



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DRILL STEM TEST REPORT

Prepared For: **Hess Oil Co.**

PO Box 1009
Mcperson Ks 67460

ATTN: James Hess

33 22 23 Hodgeman KS

Charles #1

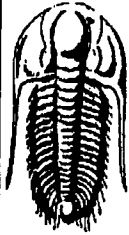
Start Date: 2010.02.17 @ 18:08:23

End Date:

Job Ticket #: 37200 DST #: 3

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TESTING, INC**

DRILL STEM TEST REPORT

Hess Oil Co.
PO Box 1009
Mcperson Ks 67460
ATTN: James Hess

Charles #1
33 22 23 Hodgeman KS
Job Ticket: 37200 DST#: 3
Test Start: 2010.02.17 @ 18:08:23

GENERAL INFORMATION:

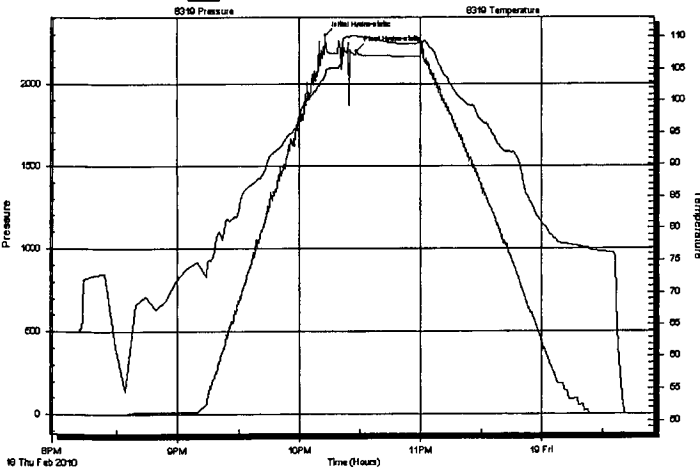
Formation: **Miss**
Deviated: **No** Whipstock: ft (KB)
Time Tool Opened:
Time Test Ended:
Interval: **4540.00 ft (KB) To 4592.00 ft (KB) (TVD)**
Total Depth: **4592.00 ft (KB) (TVD)**
Hole Diameter: **7.88 inches** Hole Condition:
Test Type: **Conventional Bottom Hole**
Tester: **Brett Dickinson**
Unit No: **47**
Reference Elevations: **2284.00 ft (KB)**
2279.00 ft (CF)
KB to GR/CF: **5.00 ft**

Serial #: 8319

Press@RunDepth: psig @ ft (KB) Capacity: 8000.00 psig
Start Date: 2010.02.18 End Date: 2010.02.19 Last Calib.: 2010.02.19
Start Time: 20:12:19 End Time: 00:41:43 Time On Btm: 2010.02.18 @ 22:12:44
Time Off Btm: 2010.02.18 @ 22:28:14

TEST COMMENT: **Ms-run**

Pressure vs. Time



PRESSURE SUMMARY

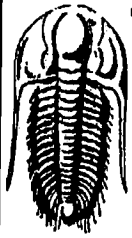
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2292.47	103.93	Initial Hydro-static
16	2202.05	110.17	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	mud	0.59

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Hess Oil Co.
PO Box 1009
Mcperson Ks 67460
ATTN: James Hess

Charles #1
33 22 23 Hodgeman KS
Job Ticket: 37200 **DST#: 3**
Test Start: 2010.02.17 @ 18:08:23

Tool Information

Drill Pipe:	Length: 4300.00 ft	Diameter: 3.80 inches	Volume: 60.32 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 2.70 inches	Volume: - bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 245.00 ft	Diameter: 2.25 inches	Volume: 1.20 bbl	Weight to Pull Loose: 70000.00 lb
		Total Volume: - bbl		Tool Chased ft
Drill Pipe Above KB:	28.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4540.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	52.00 ft			
Tool Length:	75.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

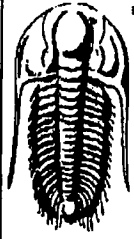
Tool Description

Length (ft) Serial No. Position Depth (ft) Accum. Lengths

Change Over Sub	1.00			4518.00	
Shut In Tool	5.00			4523.00	
Hydraulic tool	5.00			4528.00	
Safety Joint	3.00			4531.00	
Packer	4.00			4535.00	23.00 Bottom Of Top Packer
Packer	5.00			4540.00	
Stubb	1.00			4541.00	
Perforations	3.00			4544.00	
Recorder	0.00	8319	Inside	4544.00	
Recorder	0.00	8369	Outside	4544.00	
Change Over Sub	1.00			4545.00	
Blank Spacing	31.00			4576.00	
Change Over Sub	1.00			4577.00	
Perforations	12.00			4589.00	
Bullnose	3.00			4592.00	52.00 Bottom Packers & Anchor

Total Tool Length: 75.00

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DRILL STEM TEST REPORT

FLUID SUMMARY

Hess Oil Co.
PO Box 1009
Mcpherson Ks 67460
ATTN: James Hess

Charles #1
33 22 23 Hodgeman KS
Job Ticket: 37200 DST#: 3
Test Start: 2010.02.17 @ 18:08:23

Mud and Cushion Information

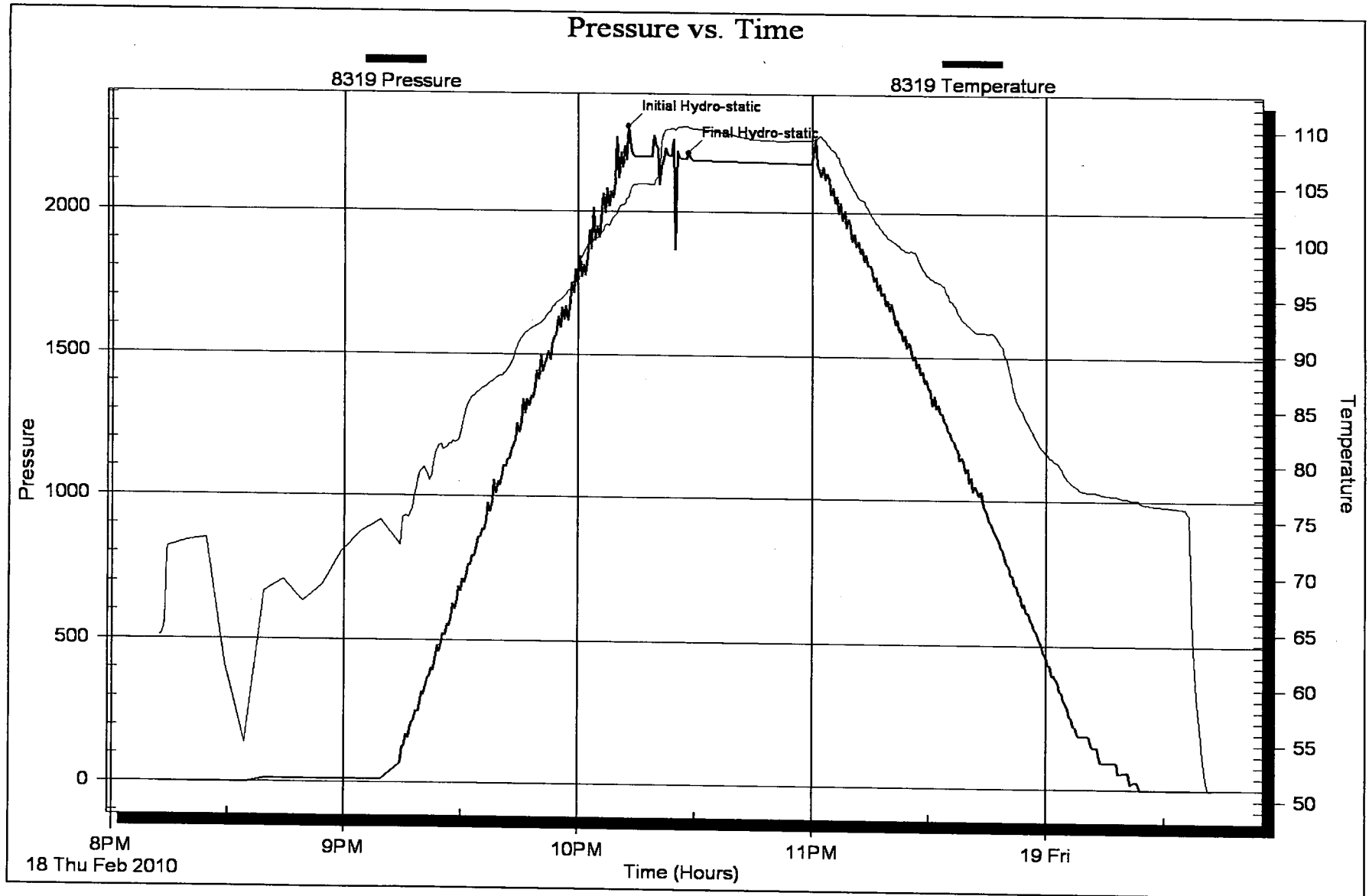
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 48.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.38 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 3000.00 ppm			
Filter Cake: inches			

Recovery Information

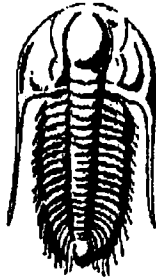
Recovery Table

Length ft	Description	Volume bbl
120.00	mud	0.590

Total Length: 120.00 ft Total Volume: 0.590 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:



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DRILL STEM TEST REPORT

Prepared For: **Hess Oil Co.**

PO Box 1009
Mcperson Ks 67460

ATTN: James Hess

33 22 23 Hodgeman KS

Charles #1

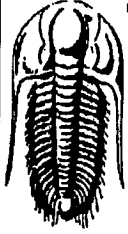
Start Date: 2010.02.19 @ 00:53:00

End Date: 2010.02.19 @ 08:03:30

Job Ticket #: 38226 DST #: 4

Trilobite Testing, Inc
PO Box 1733 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

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**TRILOBITE
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DRILL STEM TEST REPORT

Hess Oil Co.
PO Box 1009
Mcpherson Ks 67460
ATTN: James Hess

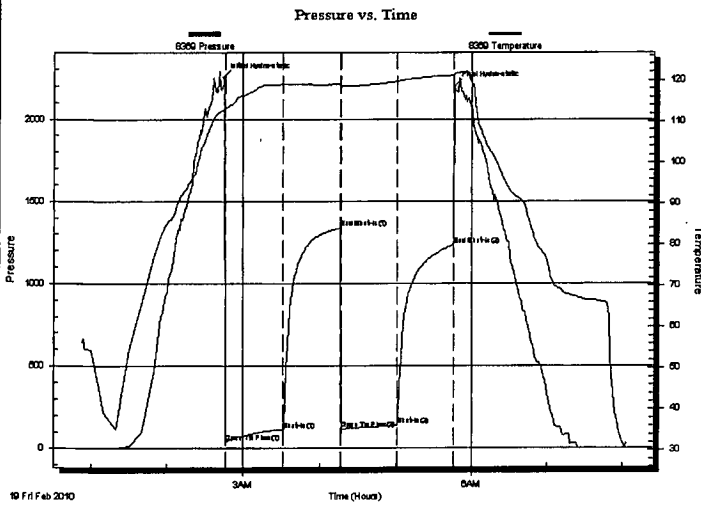
Charles #1
33 22 23 Hodgeman KS
Job Ticket: 38226 DST#: 4
Test Start: 2010.02.19 @ 00:53:00

GENERAL INFORMATION:

Formation: **Miss**
Deviated: **No Whipstock:** ft (KB) Test Type: **Conventional Bottom Hole**
Time Tool Opened: 02:46:00 Tester: **Brett Dickinson**
Time Test Ended: 08:03:30 Unit No: **47**
Interval: **4520.00 ft (KB) To 4592.00 ft (KB) (TVD)** Reference Elevations: **2284.00 ft (KB)**
Total Depth: **4592.00 ft (KB) (TVD)** **2279.00 ft (CF)**
Hole Diameter: **7.88 inches** Hole Condition: KB to GR/CF: **5.00 ft**

Serial #: 8369 **Outside**
Press@RunDepth: **136.01 psig @ 4524.00 ft (KB)** Capacity: **8000.00 psig**
Start Date: **2010.02.19** End Date: **2010.02.19** Last Calib.: **2010.02.19**
Start Time: **00:53:05** End Time: **08:03:29** Time On Btm: **2010.02.19 @ 02:45:00**
Time Off Btm: **2010.02.19 @ 05:46:29**

TEST COMMENT: IF-3.5in blow
ISI-No blow
FF-1in blow
FSI-No blow



PRESSURE SUMMARY

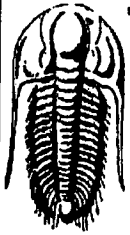
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2250.49	112.77	Initial Hydro-static
1	35.51	112.51	Open To Flow (1)
46	109.02	119.03	Shut-In(1)
91	1337.22	118.90	End Shut-In(1)
92	115.19	118.45	Open To Flow (2)
136	136.01	119.65	Shut-In(2)
181	1234.45	121.04	End Shut-In(2)
182	2198.73	121.36	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
195.00	VSOCM 5%O 95%M	1.07
60.00	VSOCM 10%O 90%M	0.84
5.00	Free Oil 5%G 95%O	0.07

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Hess Oil Co.
PO Box 1009
Mcperson Ks 67460
ATTN: James Hess

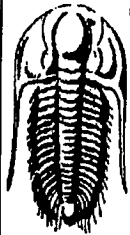
Charles #1
33 22 23 Hodgeman KS
Job Ticket: 38226 **DST#: 4**
Test Start: 2010.02.19 @ 00:53:00

Tool Information

Drill Pipe:	Length: 4329.00 ft	Diameter: 3.80 inches	Volume: 60.72 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 2.70 inches	Volume: - bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 183.00 ft	Diameter: 2.25 inches	Volume: 0.90 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4520.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	72.00 ft			
Tool Length:	95.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4498.00	
Shut In Tool	5.00			4503.00	
Hydraulic tool	5.00			4508.00	
Safety Joint	3.00			4511.00	
Packer	4.00			4515.00	23.00 Bottom Of Top Packer
Packer	5.00			4520.00	
Stubb	1.00			4521.00	
Perforations	3.00			4524.00	
Recorder	0.00	8319	Inside	4524.00	
Recorder	0.00	8369	Outside	4524.00	
Perforations	3.00			4527.00	
Change Over Sub	1.00			4528.00	
Blank Spacing	31.00			4559.00	
Change Over Sub	1.00			4560.00	
Perforations	29.00			4589.00	
Bullnose	3.00			4592.00	72.00 Bottom Packers & Anchor
Total Tool Length:	95.00				

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DRILL STEM TEST REPORT

FLUID SUMMARY

Hess Oil Co.
PO Box 1009
Mcpherson Ks 67460
ATTN: James Hess

Charles #1
33 22 23 Hodgeman KS
Job Ticket: 38226 DST#: 4
Test Start: 2010.02.19 @ 00:53:00

Mud and Cushion Information

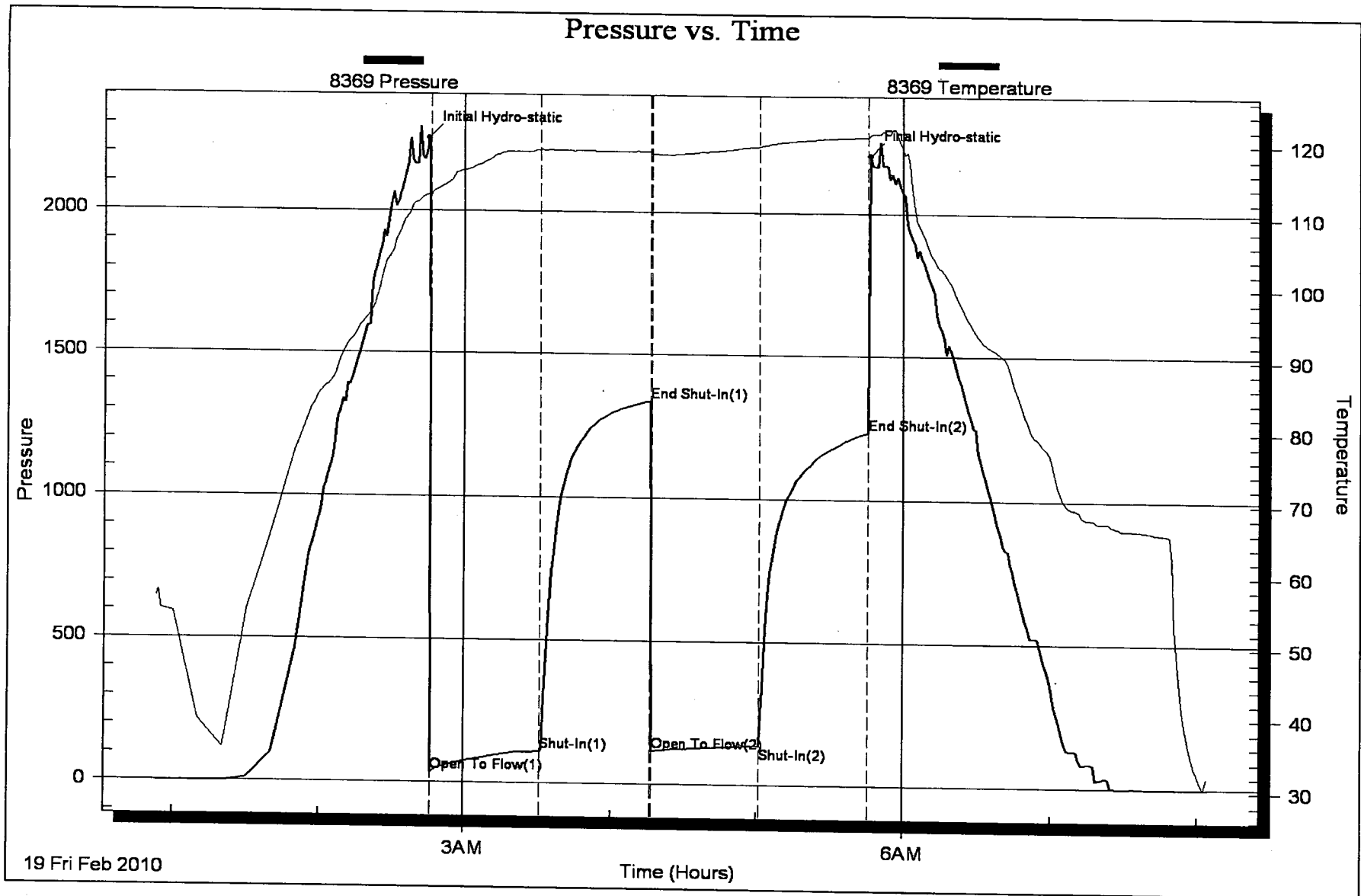
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 48.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.37 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 3000.00 ppm			
Filter Cake: inches			

Recovery Information

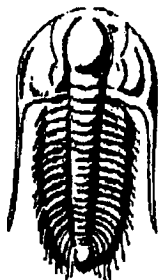
Recovery Table

Length ft	Description	Volume bbl
195.00	VSOCM 5%O 95%M	1.068
60.00	VSOCM 10%O 90%M	0.842
5.00	Free Oil 5%G 95%O	0.070

Total Length: 260.00 ft Total Volume: 1.980 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:



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TRILOBITE
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DRILL STEM TEST REPORT

Prepared For: **Hess Oil Co.**

PO Box 1009
Mcperson Ks 67460

ATTN: James Hess

33 22 23 Hodgeman KS

Charles #1

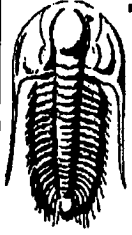
Start Date: 2010.02.19 @ 13:09:46

End Date: 2010.02.19 @ 19:55:16

Job Ticket #: 38227 DST #: 5

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**TRILOBITE
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DRILL STEM TEST REPORT

Hess Oil Co.
PO Box 1009
Mcperson Ks 67460
ATTN: James Hess

Charles #1
33 22 23 Hodgeman KS
Job Ticket: 38227 **DST#: 5**
Test Start: 2010.02.19 @ 13:09:46

GENERAL INFORMATION:

Formation:

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:16:16

Time Test Ended: 19:55:16

Test Type: Conventional Bottom Hole

Tester: Brett Dickinson

Unit No: 47

Interval: 4590.00 ft (KB) To 4598.00 ft (KB) (TVD)

Reference Elevations: 2284.00 ft (KB)

Total Depth: 4598.00 ft (KB) (TVD)

2279.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition:

KB to GR/CF: 5.00 ft

Serial #: 8369

Outside

Press@RunDepth: 296.55 psig @ 4595.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2010.02.19

End Date:

2010.02.19

Last Calib.:

2010.02.19

Start Time: 13:09:51

End Time:

19:55:15

Time On Btm:

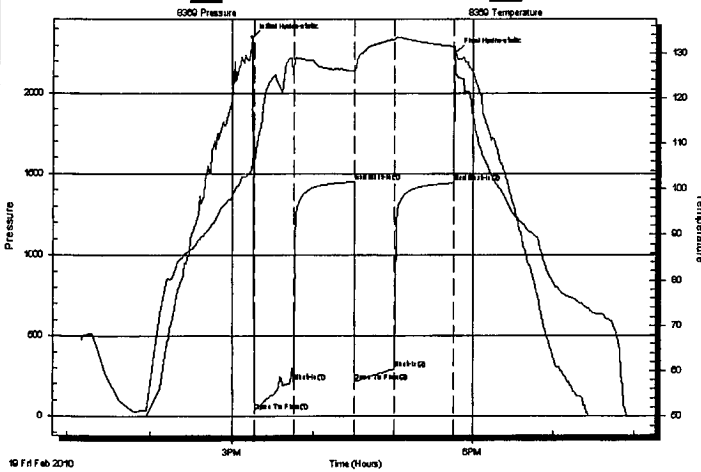
2010.02.19 @ 15:14:46

Time Off Btm:

2010.02.19 @ 17:47:15

TEST COMMENT: IF-BOB in 20min
IS- No blow
FF- 4.5in blow
FS- No blow

Pressure vs. Time



PRESSURE SUMMARY

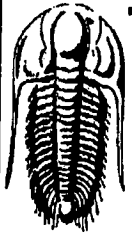
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2346.83	106.12	Initial Hydro-static
2	35.47	106.40	Open To Flow (1)
31	214.50	126.43	Shut-In(1)
76	1450.06	125.97	End Shut-In(1)
77	215.02	125.77	Open To Flow (2)
107	296.55	132.99	Shut-In(2)
151	1443.75	131.43	End Shut-In(2)
153	2257.22	125.56	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
480.00	Water	4.50
120.00	M Water	1.68
60.00	Oils potted Mud	0.84

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Hess Oil Co.
PO Box 1009
Mcperson Ks 67460
ATTN: James Hess

Charles #1
33 22 23 Hodgeman KS
Job Ticket: 38227 **DST#: 5**
Test Start: 2010.02.19 @ 13:09:46

Tool Information

Drill Pipe:	Length: 4330.00 ft	Diameter: 3.80 inches	Volume: 60.74 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 245.00 ft	Diameter: 2.25 inches	Volume: 1.20 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 61.94 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4590.00 ft			Final 63000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	8.00 ft			
Tool Length:	31.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

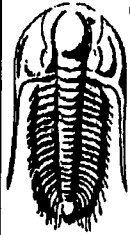
Tool Description

Length (ft) Serial No. Position Depth (ft) Accum. Lengths

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4568.00	
Shut In Tool	5.00			4573.00	
Hydraulic tool	5.00			4578.00	
Safety Joint	3.00			4581.00	
Packer	4.00			4585.00	23.00 Bottom Of Top Packer
Packer	5.00			4590.00	
Stubb	1.00			4591.00	
Perforations	4.00			4595.00	
Recorder	0.00	8319	Inside	4595.00	
Recorder	0.00	8369	Outside	4595.00	
Bullnose	3.00			4598.00	8.00 Bottom Packers & Anchor

Total Tool Length: 31.00

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**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Hess Oil Co.
PO Box 1009
Mcpherson Ks 67460
ATTN: James Hess

Charles #1
33 22 23 Hodgeman KS
Job Ticket: 38227 DST#: 5
Test Start: 2010.02.19 @ 13:09:46

Mud and Cushion Information

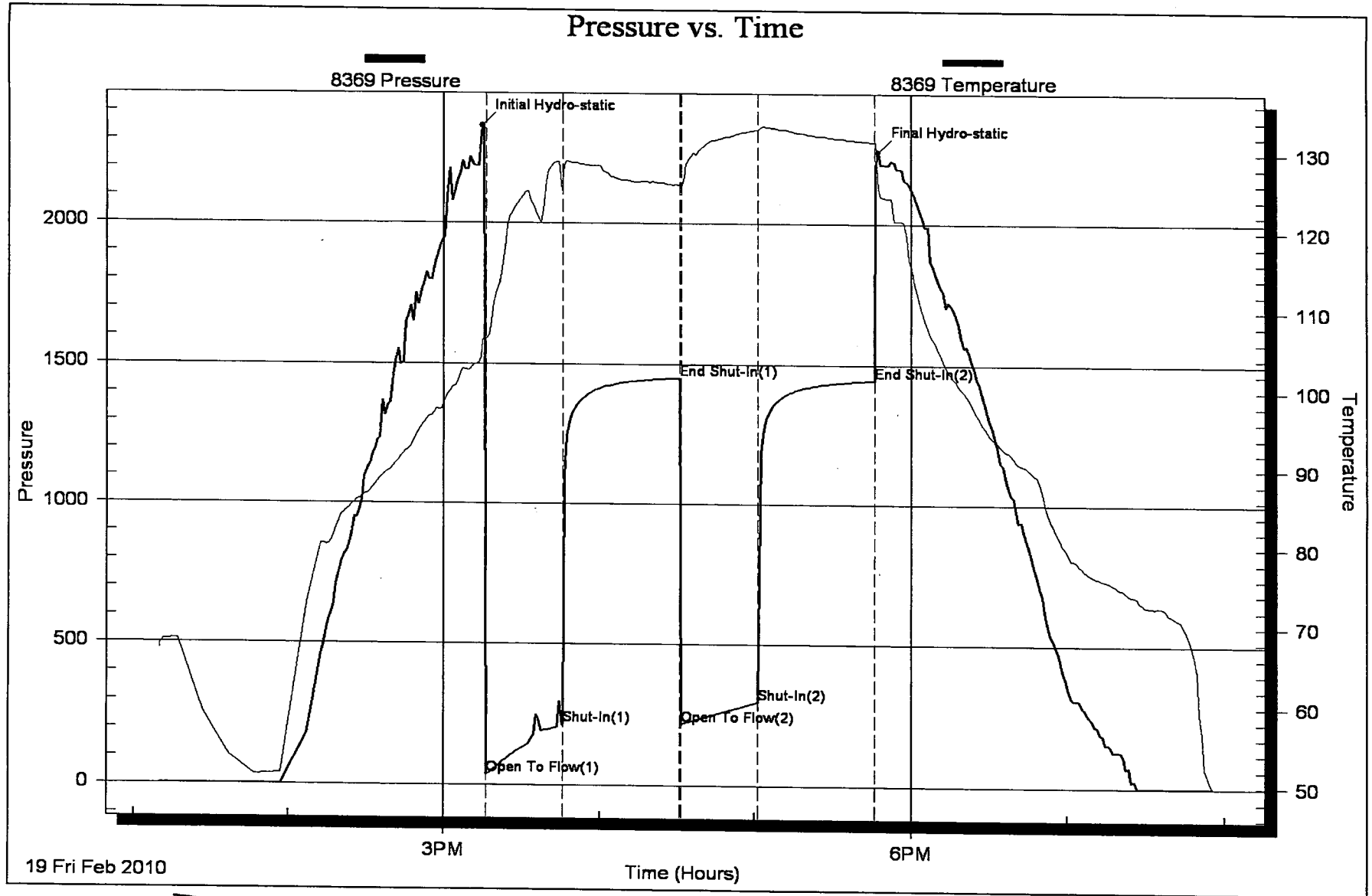
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 56.00 sec/qt	Cushion Volume: bbl		
Water Loss: 10.39 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 3000.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
480.00	Water	4.501
120.00	M Water	1.683
60.00	Oilspotted Mud	0.842

Total Length: 660.00 ft Total Volume: 7.026 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:



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