



KANSAS CORPORATION COMMISSION 1052131
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 SLOW
- 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 #: _____

1/29/2011 2/7/2011 2/9/2011
Spud Date or Date Reached TD Completion Date or
Recompletion Date Recompletion Date

API No. 15 - 15-165-21913-00-00

Spot Description: _____
NW SE SW SW Sec. 15 Twp. 18 S. R. 19 East West
652 Feet from North / South Line of Section
803 Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

County: Rush

Lease Name: Jennifer Well #: 1

Field Name: _____

Producing Formation: na

Elevation: Ground: 2030 Kelly Bushing: 2035

Total Depth: 3970 Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: 1215 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: 6800 ppm Fluid volume: 65 bbls

Dewatering method used: Hauled to Disposal

Location of fluid disposal if hauled offsite:

Operator Name: American Warrior, Inc.

Lease Name: Moore-Hamzy License #: 4058

Quarter SE Sec. 27 Twp. 19 S. R. 21 East West

County: Ness Permit #: D28845

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 Gerson Date: 04/11/2011



1052131

Operator Name: Hess Oil Company Lease Name: Jennifer Well #: 1
 Sec. 15 Twp. 18 S. R. 19 East West County: Rush

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 (Attach Additional Sheets)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log Formation (Top), Depth and Datum	<input checked="" type="checkbox"/> Sample
Samples Sent to Geological Survey	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Name Attached	Top Datum Attached
Cores Taken	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Electric Log Run	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
Electric Log Submitted Electronically (If no, Submit Copy)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
List All E. Logs Run: Dual Compensated Porosity, Borehole Compensated Sonic, Dual Induction			

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	12.25	8.625	23	1215	common	450	2% gel, 3% cc

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

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth

TUBING RECORD:	Size:	Set At:	Packer At:	Liner Run: <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 (Explain) _____			
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio Gravily

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease (If vented, Submit ACO-18.)	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled (Submit ACO-5) <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Hess Oil Company
Well Name	Jennifer 1
Doc ID	1052131

Tops

Tops		
Anhdrite	1209	+826
Base Anhydrite	1245	+790
Heebner	3425	-1390
Lansing	3470	-1435
Base Kansas City	3745	-1710
Pawnee	3038	-1795
Fort Scott	3862	-1827
Arbuckle	3903	-1868
RTD	3970	-1935
LTD	3967	-1932

QUALITY OILWELL CEMENTING, INC.

Phone 785-483-2025
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67065

No. 4413

Date	1/31/11	Sec.	15	Twp.	18	Range	19	County	Rush	State	KS	On Location		Finish	4:30 AM
Lease	Jennifer		Well No.	1		Location Nacoma, 1E, 1N, 1E, 3/4S, E into									
Contractor	Mallard Drilling					Owner									
Type Job	Surface					To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.									
Hole Size	12 1/4"		T.D.	1218'		Charge To Hess Oil Co.									
Csg.	8 5/8" 23#		Depth	1215'		Street									
Tbg. Size			Depth			City									
Tool			Depth			State									
Cement Left in Csg.	42"		Shoe Joint	42"		The above was done to satisfaction and supervision of owner agent or contractor.									
Meas Line			Displace			Cement Amount Ordered 450 sx Com 3% CC 2% gel									

EQUIPMENT

Pumptrk	9	No.	Cementer Helper	Paul	Common	450
Bulktrk	12	No.	Driver	Rocky	Poz. Mix	
Bulktrk	20	No.	Driver	Corey	Gel.	8

JOB SERVICES & REMARKS

Remarks:	Calcium	16
Rat Hole	Hulls	
Mouse Hole	Salt	
Centralizers	Flowseal	
Baskets	Kol-Seal	
D/V or Port Collar	Mud CLR 48	
Est. Circulation	CFL-117 or CD110 CAF 38	
Mix 450 sx	Sand	
Displace	Handling	464
Cement Circulated	Mileage	

FLOAT EQUIPMENT

Guide Shoe	8 5/8"
Centralizer	
Baskets	
AFU Inserts	
Float Shoe	
Latch Down	
	Baffle Plate, Rubber Plug
	Head + Mant Fold
Pumptrk Charge	Long Surface
Mileage	34

Thank You!!

X Signature Rachel R. Usher

Tax
Discount
Total Charge

QUALITY OILWELL CEMENTING, INC.

Phone 785-483-2025
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 5100
2-9-11

Date	2-8-11	Sec.	15	Twp.	18	Range	19	County	Rush	State	KS	Ort Location	Finish
Lease	Jennifer		Well No.	#1		Location Rush Center, Ks - 6-7 w to RB 190							
Contractor	Mallard						Owner	IN, E/S					
Type Job	plug						To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.						
Hole Size	7 7/8"		T.D.	3970'		Charge To	Hess oil						
Csg.			Depth			Street							
Tbg. Size	4 1/2"		Depth	3903'		City	State						
Tool			Depth			The above was done to satisfaction and supervision of owner agent or contractor.							
Cement Left in Csg.			Shoe Joint			Cement Amount Ordered	220 5x60/40 4% Gel 1/4 # F.S.						
Meas Line			Displace	H2O / Mud									

EQUIPMENT

Pumptrk	1	No.	Comenter	Neale	#5 Brandon	Common	132
Bulktrk	8	No.	Driver	Doug		Poz. Mix	88
Bulktrk	p.u.	No.	Driver	Rick		Gel.	8

JOB SERVICES & REMARKS

Remarks:	Calcium
Rat Hole 30 SX	Hulls
Mouse Hole 20 SX	Salt
Centralizers	Flowseal 55#
Baskets	Kol-Seal
D/V or Port Collar	Mud CLR 48
3903' - 50 SX	CFL-117 or CD110 CAF 38
1240' - 50 SX	Sand
390' - 50 SX	Handling 228
60' - 20 SX	Mileage

FLOAT EQUIPMENT

390' - 50 SX	Guide Shoe
60' - 20 SX	Centralizer
Rubhole - 30 SX	Baskets
Mousehole - 20 SX	AFU Inserts
	Float Shoe
	Latch Down

220 SX 60/40 4% Gel 1/4 # F.S.	Pumptrk Charge	plug
Cement did Circulate.	Mileage	34
	Tax	
	Discount	
	Total Charge	

X Signature

Tom B...

HESS OIL COMPANY

225 N. Market, Suite 300

Wichita, Kansas 67202

(316) 263-2243

GEOLOGICAL REPORT

JENNIFER #1

652' FSL, -803' FWL of

SECTION 15 - 18S - 19W

RUSH COUNTY, KANSAS

Commenced: 1-29-11 Elevations: 2030' GR, 2035' KB
Completed: 2-8-11 Surface Pipe: 8-5/8" @ 1218' KB
Contractor: Mallard J.V. Production Pipe: none

One foot drilling time was kept from 1200' to 1260' KB and from 3300' to RTD. Ten foot drilling samples (wet & dry) were kept from 3400' 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>1209</u>	<u>(+826)</u>
<u>BASE ANHYDRITE</u>	<u>1245</u>	<u>(+790)</u>
<u>HEEBNER</u>	<u>3425</u>	<u>(-1390)</u>
<u>LANSING</u>	<u>3470</u>	<u>(-1435)</u>

HESS OIL COMPANY

225 N. Market, Suite 300

Wichita, Kansas 67202

(316) 263-2243

Jennifer #1

Page 2

BASE KANSAS CITY 3745 (-1710)

PAWNEE 3038 (-1795)

FORT SCOTT 3862 (-1827)

3879-81' KB Clear, loose sand grains, medium to large, poorly sorted, poorly rounded. Very slight show of free oil stuck to 3 or 4 grains, no odor, very slight cut, and very slight stain.

DRILL STEM TEST #1 3855' to 3885' KB 30' Anchor

Blow: weak steady $\frac{1}{2}$ ". 2nd -- no blow

Times: Open 60, Closed 45, Open 30, Closed 45.

Recovered: 50' Mud with few oil specks.

Pressures: IH 1928# IF 22 - 32# ISIP 916#
FH 1901# FF 35 - 38# FSIP 861#

3885-89' KB Clear, large, poorly sorted, poorly rounded, loose sand grains. Fair show of free oil, no odor, weak cut, fair stain, and few loose oil drops.

DRILL STEM TEST #2 3850' to 3895' KB 45' Anchor

Blow: very slow build to 6". 2nd -- 3".

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

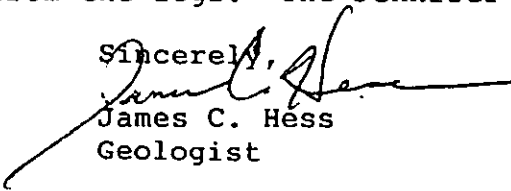
Recovered: 200' SW cut Mud with oil spots. (30% SW, 70% M)

Pressures: IH 1988# IF 27 - 83# ISIP 644#
FH 1899# FF 87 - 115# FSIP 498#

ARBUCKLE 3903 (-1868)

ROTARY TOTAL DEPTH 3970 (-1935)

A full set of logs were run, including Dual Induction, Dual Compensated Porosity, and Sonic. All oil shows were covered by DSTs and nothing new was learned from the logs. The Jennifer #1 was plugged on 2-8-11.

Sincerely,

James C. Hess
Geologist

GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

COMPANY HESS OIL COMPANY
 LEASE JENNIFER #1
 FIELD - WILDCAT -
 LOCATION 652' FSL, 803' FWL
 SEC 15 TWSP 18 S RGE 19 W
 COUNTY RUSH STATE KANSAS

ELEVATIONS

KB 2035'
 DF 2033'
 GL 2030'
 Measurements Are All
 From KB

CONTRACTOR MALLARD J.V.
 SPUD 1-29-11 COMP 2-8-11
 RTD 3970' LTD 3967'
 MUD UP 3375' TYPE MUD CHEMICAL

CASING

SURFACE 8-5/8" at 1218'
 PRODUCTION none

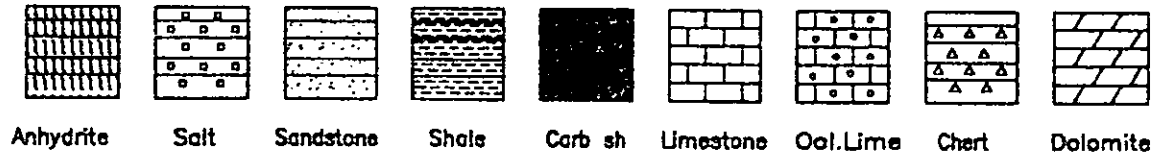
ELECTRICAL SURVEYS

DUAL INDUCTION,
 NEUTRON & SONIC

SAMPLES SAVED FROM 3400' TO TD
 DRILLING TIME KEPT FROM 3300' TO TD
 SAMPLES EXAMINED FROM 3400' TO TD
 GEOLOGICAL SUPERVISION FROM 3298' TO TD
 GEOLOGIST ON WELL JAMES C. HESS

FORMATION TOPS	LOG	SAMPLES																																												
ANHYDRITE		1209 (+826)	<div style="display: flex; justify-content: space-around; align-items: center;"> 19 W </div> <table border="1" style="margin: auto; border-collapse: collapse;"> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td style="text-align: center;">15</td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> </table> <div style="display: flex; justify-content: space-between; align-items: center; margin-top: 10px;"> 18 S </div>													15																														
	15																																													

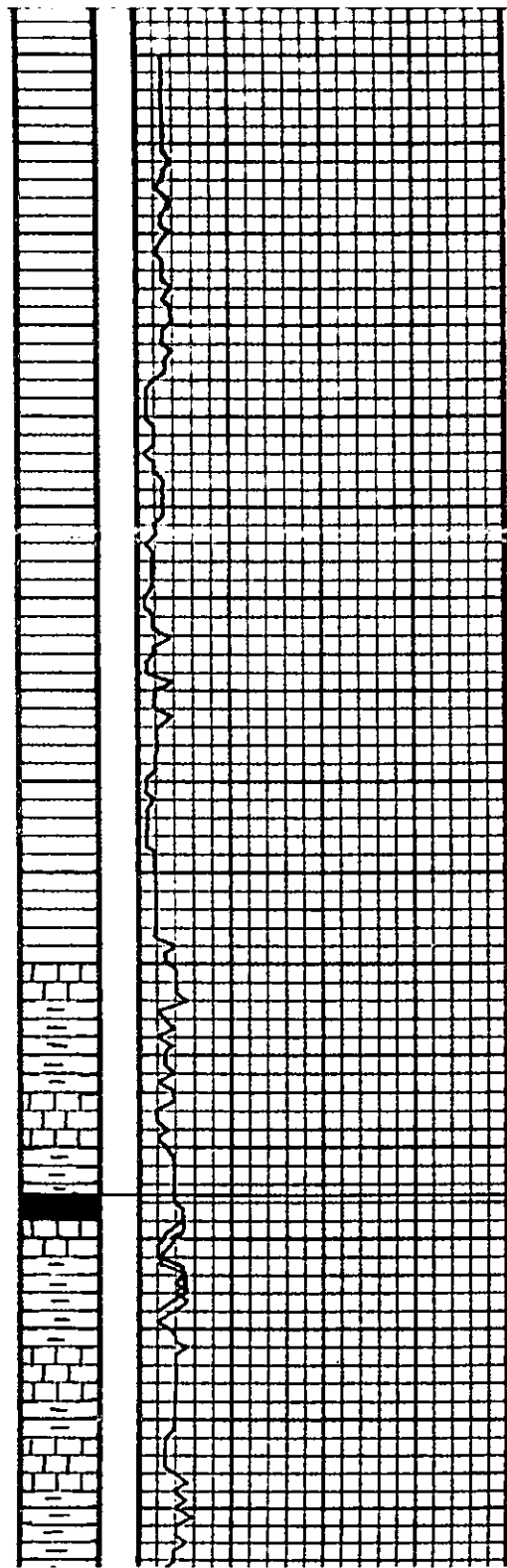
LEGEND



SCALE " = 100'

LOG 7703

Lithology	Drilling time in minutes					DEPTH	Sample Description	Remarks, drill stem tests, etc.
	0	5	10	15	20			
						1200		(+826)
								ANHYDRITE 1209 (+827)
						20		BIT Dull Ran 8 5/8" Surface Pipe
						40		
								BASE ANHYDRITE 1245
								(+790)
						60		
						3300		



3300

20

40

60

80

3400

20

40

60

WT - Lm VFALM sl ds Lm
w/ some wt chalky Lm
Some green + Red sh's

WT - Lm - DP - FALM Lm
w/ some wt chalky Lm
Some green + Red sh's

AA w/ more sh's No. of
No show

BT Carb. sh's

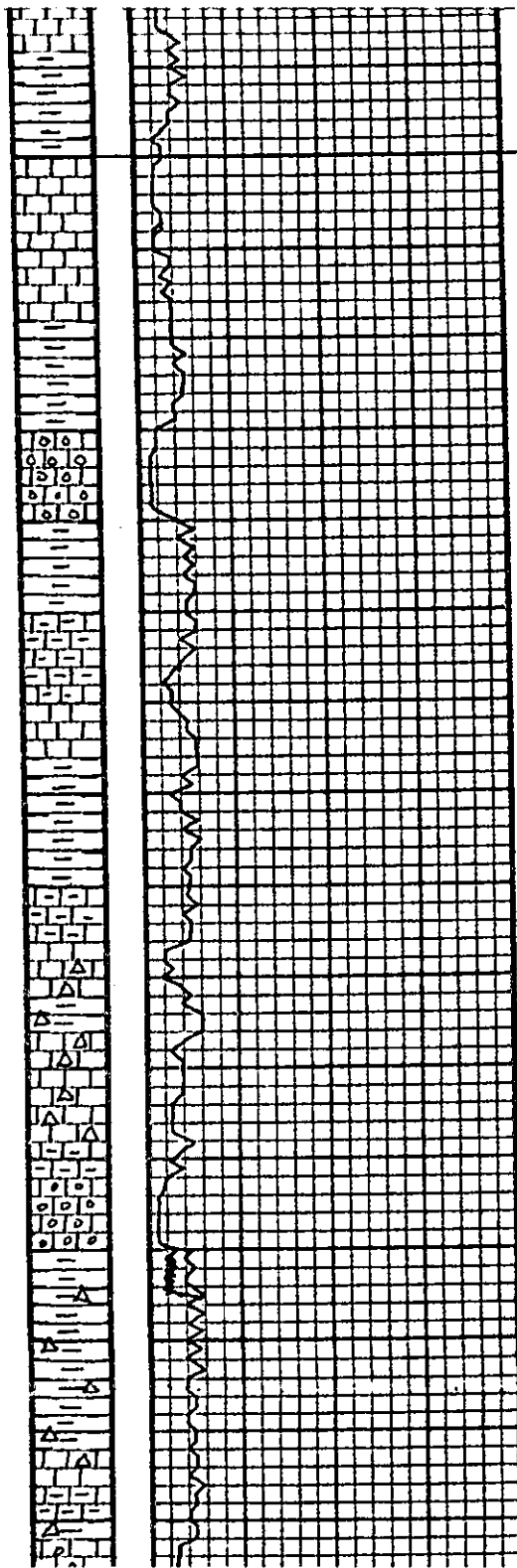
Mostly green + Red sh's
Lm - Tan VFALM sl chalky Lm
Some wt chalky Lm

WT - Tan VFALM sl chalky Lm
Some wt chalky Lm
Some green + Red sh's

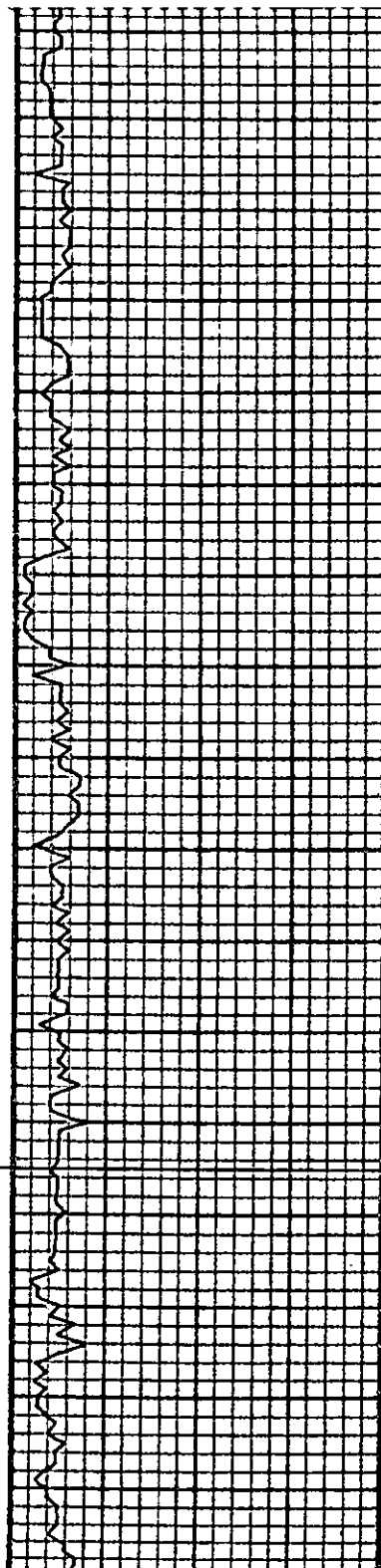
AA w/ less sh's
No. of
No show

WT - Tan VFALM Lm
w/ sh's wt chalky Lm

HEEBNER 3425 (-1390)

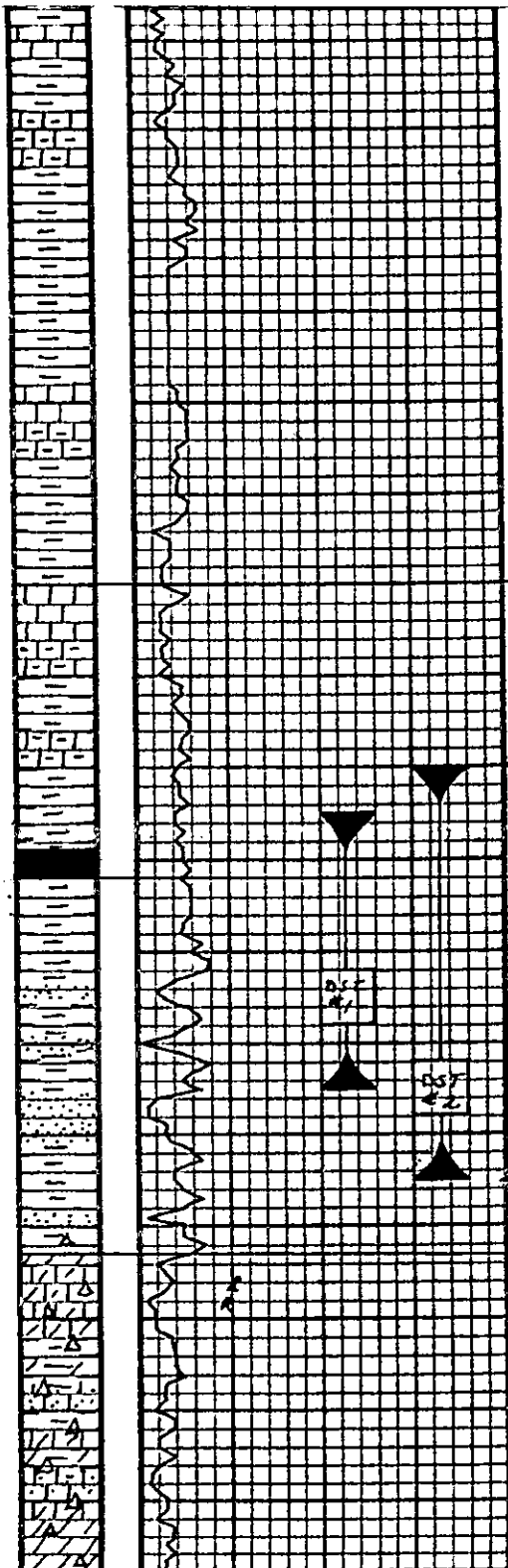


Depth (ft)	Description	Notes
60	WT - 1/2 heavy VF-Falm Lm w/Pl's wt chalky Lm Some green + Red sh's	No. B No Show
	LANSING 3470 (-1435)	
80	Lm - 1/2 heavy VF-Falm sl ds Lm w/Pl's wt chalky Lm Green + Red sh's	Some Fair B No Show
	WT - 1/2 heavy VF-Falm Lm w/Pl's wt chalky Lm Some green + Red sh's	
3500	Lm - Tan VF-Falm Lm w/Pl's wt chalky Lm Some green + Red sh's	
	Tan Falm dolioastic Lm w/Few sh's	Good B No Show
20	Lm - Tan VF-Falm sl Foss. Lm w/Pl's wt chalky Lm Some green + Red sh's	
	AA w/less sh's	No B No Show
40	Lm - Tan VF-Falm ds Lm w/Pl's wt chalky Lm Few green + Red sh's	
	AA w/more sh's	No B No Show
60	WT - Tan VF-Falm sl Foss Lm Pl's wt sharp Δ Few green + Red sh's	
	Tan VF-Falm ds sl Foss Lm w/some wt sharp Δ's Few sh's	
	AA w/Few sh's	Weak B No Show
80	Lm - Tan Falm dolioastic sl oolitic Lm w/Few sh's	Good B No Show
	Lm - Tan VF-Falm sl Foss. Lm w/Pl's wt sharp Δ Few green + Red sh's	
3600	AA w/more sh's	No B No Show
	Tan VF-Falm sl Foss. Lm w/Pl's wt sharp Δ Few green + Red sh's	
20	Lm - Tan Falm sl Foss. Lm Pl's sl oolitic Pl's wt sharp Δ	



20	FRW UPPER + Red sh's Lm - Tan Fxlm sl. Foss. Lm PE's sl. calcitic PE's w/ sharp Δ Some Green + Red sh's
	AA w/more sh's No β No show
40	WT - Tan VEXIN sl. chalky Lm w/ PE's w/ sharp Δ Some Green + Red sh's
	AA w/ less sh No β No show
60	WT - Lm - VEXIN ds Lm w/ some wt chalky Lm Some Green + Red sh's
	AA w/more sh's No β No show
80	Tan Fxlm calcitic Lm w/ few sh's Lead β No show
	Lm - Tan VEXIN sl. Foss. Lm w/ some wt chalky Lm Some Green + Red sh's
3700	AA w/more Green + Red sh's No β No show
	WT - Tan VEXIN ds Lm w/ PE's w/ chalky Lm Some Green + Red sh's
20	WT - Lm VEXIN sl. Foss. Lm w/ PE's w/ chalky Lm Few Green + Red sh's
	AA w/more sh's No β No show
40	WT - Tan VEXIN Lm Few Green + Red sh's
	Mostly Green Red + Bl sh's Some wt - Tan VEXIN ds Lm w/ PE's w/ chalky Lm
60	AA NO β No show
	WT - Tan VEXIN ds Lm w/ PE's w/ chalky Lm Some Green + Red sh's No show
	AA w/ more sh's No β No show
80	Mostly Red + Green sh's Some Lm - Tan VEXIN Lm PE's w/ chalky Lm

BASE KANSAS CITY 3745
(-1710)



Some Green + Red sh's No show

AA w/ more sh's
No B
No show

80
Mostly Red + Green sh's
Some Com - Tan VFalm Lm
PE's w/ Chalky Lm

Green + Red sh's
Some Com - Tan VFalm Lm
PE's w/ Chalky Lm

3800

AA w/ some w/ chalky Lm
No B
No show

Com - Tan VFalm sl chalky Lm
w/ PE's w/ Chalky Lm
Some Red + Green sh's

20
Mostly Red + Green sh's
Some w/ grey VFalm chalky Lm
w/ PE's w/ Chalky Lm

40
w/ Grey VFalm sl Chalky Lm
w/ some w/ chalky Lm
Some Red + Green sh's

Grey VFalm chalky Lm
w/ some w/ grey chalky Lm
Some Red + Green sh's

AA w/ more sh's
No B
No show

60
BT Carb. sh's

Red + Green sh's
w/ some w/ Tan VFalm Lm
No B
No show

AA w/ few loose ss grains
No show

80
V. sl show of Free oil on loose clear
ss grains. NO odor (2 PE's)

Weak show of Free oil in/on large clear
ss grains. NO odor

Red + Green sh's
w/ some loose clear ss grains
PE's w/ grey VFalm Lm
No B
No show

3900

w/ multi sl Oolitic Lm
(Sagony + Feible) Pale B
PE's w/ shrap. B No show

Some Red + Green sh's

Lm - Grey multi ss Dolo. / Lm
w/ few loose ss grains
Some Red + Green sh's
Poor B
No show

20
w/ Tan - Grey multi Di Dolo.
Some w/ grey multi Diolitic Lm
Some Red + Green sh's
No show

AA w/ less sh's
Poor B
No show

PAWNEE 3038 (-1795)

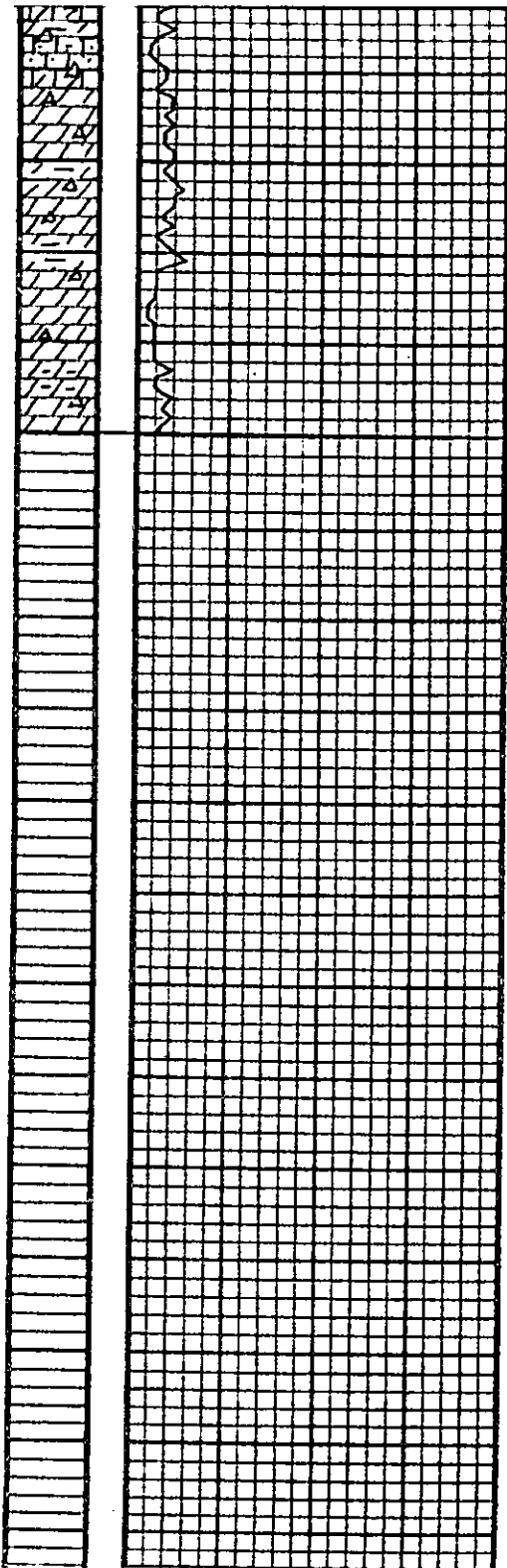
FORT SCOTT 3862 (-1827)

DST # 1
3855 - 3885' KB
30' ANCHOR
TIMES:
60-45-30-45
RECOVERED:
50' M w/ few oil specks

PRESSURES:
IH 1928"
FH 1901"
IF 22-32"
FF 35-38"
ISSP 916"
FSSP 861"

ARBUCKLE
3903
(-1868)

DST # 2



WT - Tan - Grey, main DS Dolo.
 Some WT - Grey main Dolomite Ln
 Some Red & Green sh's NO SHOW

AA w/ less sh's
 Poor #
 NO SHOW

40
 Lec - Br main DS Dolo.
 w/ some Poor #
 Few Green sh's NO SHOW

60
 Lec - Br main DS Dolo.
 w/ some Fair # "Kuggy"
 Few Green sh's NO SHOW

WT - Lim - Br main DS Dolo.
 Poor #
 Some Green sh's NO SHOW

80

4000

20

40

60

80

FSIP 861*

DST #2

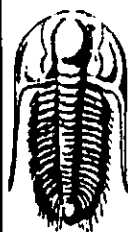
3850 - 3895' KB
 45' ANCHOR

TIMES:
 45-45-45-45

RECOVERED:
 200' Water Cut Mud
 w/ Few oil spots

RTD
 3970
 (-1935)

PRESSURES:
 IH 1998*
 FH 1899*
 IF 27-83*
 FF 87-115*
 FSIP 644*
 FSIP 498*



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

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

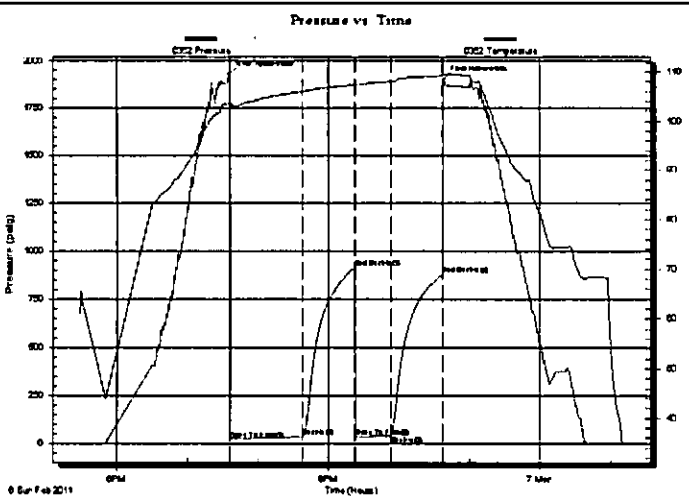
Jennifer #1
15-18s-19w Rush
 Job Ticket: 041547 **DST#: 1**
 Test Start: 2011.02.06 @ 17:28:00

GENERAL INFORMATION:

Formation: **Cherokee**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 19:36:20
 Time Test Ended: 01:11:30
 Interval: **3855.00 ft (KB) To 3885.00 ft (KB) (TVD)**
 Total Depth: **3885.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches** Hole Condition: Fair
 Test Type: Conventional Bottom Hole
 Tester: Andy Carreira
 Unit No: 39
 Reference Elevations: **2035.00 ft (KB)**
2030.00 ft (CF)
 KB to GR/CF: **5.00 ft**

Serial #: 8352 Outside
 Press@RunDepth: **38.90 psig @ 3856.00 ft (KB)**
 Start Date: **2011.02.06** End Date: **2011.02.07**
 Start Time: **17:28:05** End Time: **01:11:29**
 Capacity: **8000.00 psig**
 Last Calib.: **2011.02.07**
 Time On Btm: **2011.02.06 @ 19:35:10**
 Time Off Btm: **2011.02.06 @ 22:38:09**

TEST COMMENT: IF: Weak, Steady, Half inch
 IS: No Return
 FF: No Blow
 FS: No Return



PRESSURE SUMMARY

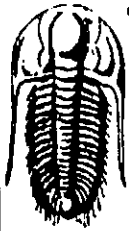
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1928.19	103.77	Initial Hydro-static
2	22.05	103.32	Open To Flow (1)
63	32.65	105.97	Shut-In(1)
107	916.74	107.38	End Shut-In(1)
108	35.10	106.80	Open To Flow (2)
138	38.90	108.03	Shut-In(2)
182	881.33	109.20	End Shut-In(2)
183	1901.17	109.41	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
50.00	Mud, w / slight oil specks in tool	0.25

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

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

Jennifer #1
15-18s-19w Rush
Job Ticket: 041547 **DST#: 1**
Test Start: 2011.02.06 @ 17:28:00

Mud and Cushion Information

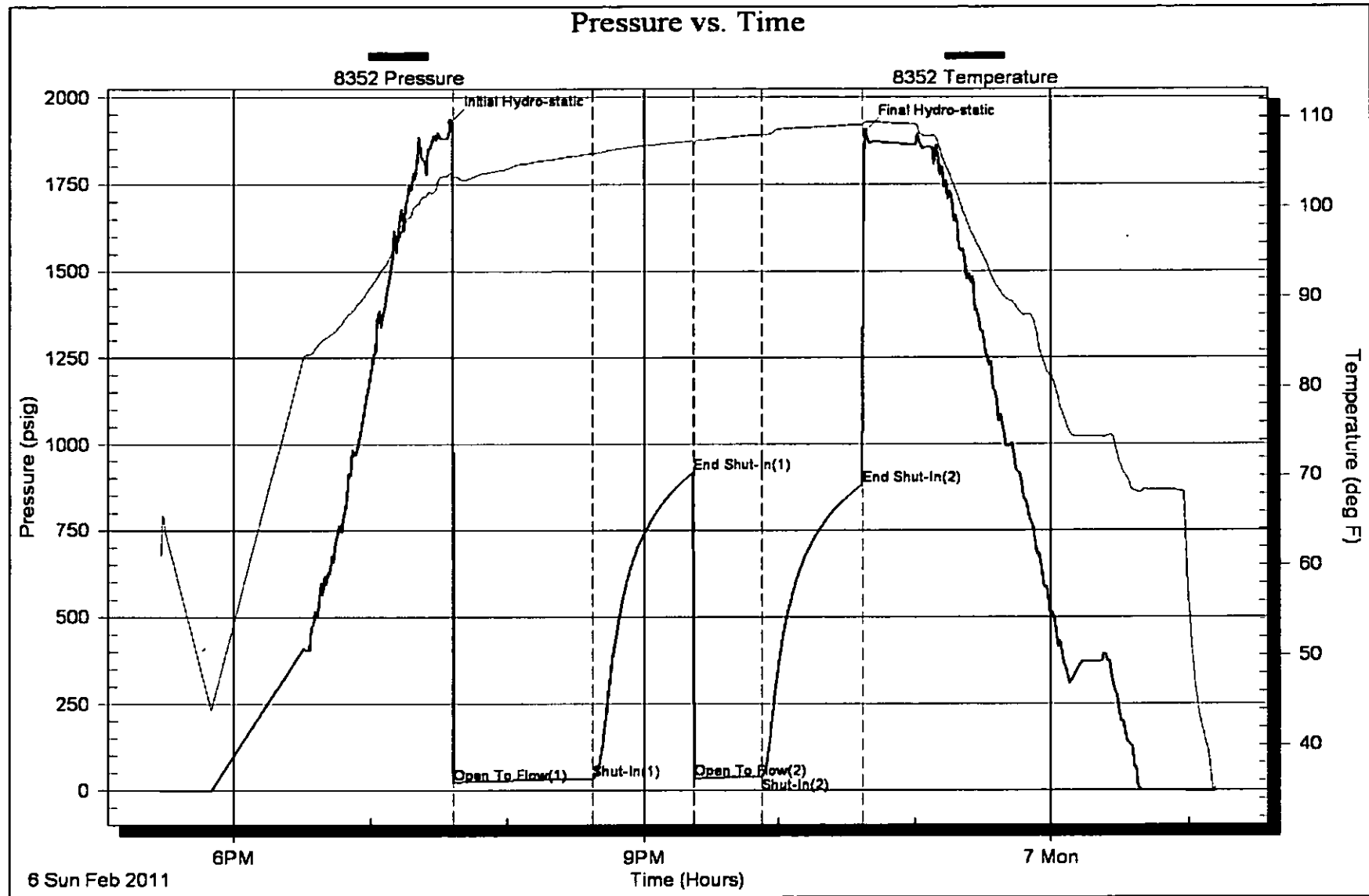
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 50.00 sec/qt	Cushion Volume: bbl		
Water Loss: 10.80 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 4000.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
50.00	Mud, w / slight oil specks in tool	0.246

Total Length: 50.00 ft Total Volume: 0.246 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.
 PO Box 1009
 Mcpherson Ks. 67460+1009
 ATTN: Jamie Hess

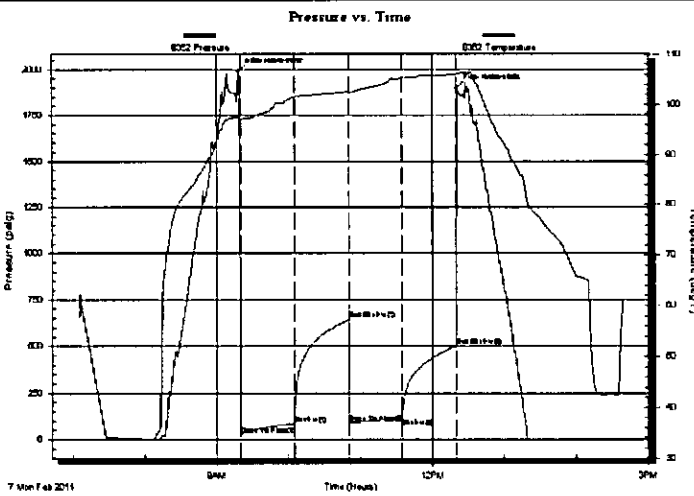
Jennifer #1
15-18s-19w Rush
 Job Ticket: 041548 **DST#: 2**
 Test Start: 2011.02.07 @ 07:05:05

GENERAL INFORMATION:

Formation: **Cherokee**
 Deviated: **No** Whipstock: **ft (KB)**
 Time Tool Opened: 09:20:20
 Time Test Ended: 14:38:50
 Interval: **3850.00 ft (KB) To 3895.00 ft (KB) (TVD)**
 Total Depth: **3895.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches** Hole Condition: **Fair**
 Test Type: **Conventional Bottom Hole**
 Tester: **Andy Carreira**
 Unit No: **39**
 Reference Elevations: **2035.00 ft (KB)**
2030.00 ft (CF)
 KB to GR/CF: **5.00 ft**

Serial #: 8352 **Outside**
 Press@RunDepth: **115.60 psig @ 3855.00 ft (KB)**
 Start Date: **2011.02.07** End Date: **2011.02.07**
 Start Time: **07:05:05** End Time: **14:38:50**
 Capacity: **8000.00 psig**
 Last Calib.: **2011.02.07**
 Time On Btm: **2011.02.07 @ 09:18:40**
 Time Off Btm: **2011.02.07 @ 12:20:39**

TEST COMMENT: IF: Fair, 6 inches
 IS: No Return
 FF: 3 inch blow
 FS: No Return



PRESSURE SUMMARY

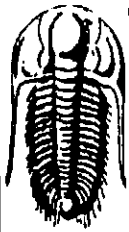
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1988.78	97.57	Initial Hydro-static
2	27.67	96.97	Open To Flow (1)
47	83.88	101.46	Shut-In(1)
92	644.99	102.58	End Shut-In(1)
92	87.90	102.20	Open To Flow (2)
136	115.60	105.17	Shut-In(2)
181	498.74	106.06	End Shut-In(2)
182	1899.16	106.26	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
200.00	SOSWM w =30% m=70%	0.98

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

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

Jennifer #1
15-18s-19w Rush
Job Ticket: 041548 **DST#: 2**
Test Start: 2011.02.07 @ 07:05:05

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: 50.00 sec/qt	Cushion Volume: bbl		
Water Loss: 10.80 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 4000.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
200.00	SOSWM _w =30% m=70%	0.984

Total Length: 200.00 ft Total Volume: 0.984 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:

