

CONFIDENTIAL

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

ORIGINAL

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

9/21/12

OPERATOR: License # 9855
Name: Grand Mesa Operating Company
Address 1: 1700 N. Waterfront Pkwy, Bldg 600
Address 2: _____
City: Wichita State: KS Zip: 67206 + 5 5 1 4
Contact Person: Ronald N. Sinclair
Phone: (316) 265-3000
CONTRACTOR: License # 30606
Name: Murfin Drilling Company, Inc.
Wellsite Geologist: Steven P. Carl
Purchaser: none

KCC
SEP 21 2010
CONFIDENTIAL

API No. 15 - 063-21862-00-00

Spot Description: 622' FSL & 2033' FWL
NW SE SW Sec. 32 Twp. 13 S. R. 31 East West
622 Feet from North / South Line of Section
2,033 Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:
 NE NW SE SW

County: Gove

Lease Name: Hess-Coldwater Well #: 1-32

Field Name: Wildcat

Producing Formation: None

Elevation: Ground: 2960' Kelly Bushing: 2965'

Total Depth: 4735' Plug Back Total Depth: n/a

Amount of Surface Pipe Set and Cemented at: 5 jts. @ 230 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.

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
08/31/2010	09/09/2010	09/09/2010

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: 9,700 ppm Fluid volume: 830 bbls

Dewatering method used: Evaporation, backfilling & leveling of location

Location of fluid disposal if hauled offsite: _____

Operator Name: _____

Lease Name: _____ License #: _____

Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West

County: _____ Permit #: _____

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.

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.

Signature: Ronald N. Sinclair RONALD N. SINCLAIR

Title: President Date: September 21, 2010

KCC Office Use ONLY

Letter of Confidentiality Received
Date: 9/21/10 - 9/21/12

Confidential Release Date: _____

Wireline Log Received

Geologist Report Received

UIC Distribution

ALT I II III Approved by: NS Date: 9-27-10

PA

KCC

Operator Name: Grand Mesa Operating Company Lease Name: Hess-Coldwater Well #: 1-32 sep 2 2010
 Sec. 32 Twp. 13 S. R. 31 East West County: Gove

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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 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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No 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 <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>(If no, Submit Copy)</i> List All E. Logs Run: Compact Photo Den/Comp Neutron Micro Res. Log; Array Induction Shallow Focussed Elect Log	<input checked="" type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Name</th> <th style="text-align: left;">Top</th> <th style="text-align: left;">Datum</th> </tr> </thead> <tbody> <tr><td>Stone Corral</td><td>2454</td><td>+ 511</td></tr> <tr><td>Bs/Stone Corral</td><td>2476</td><td>+ 489</td></tr> <tr><td>Heebner</td><td>3967</td><td>-1002</td></tr> <tr><td>Lansing</td><td>4011</td><td>-1046</td></tr> <tr><td>Muncie Creek</td><td>4162</td><td>-1197</td></tr> <tr><td>Hushpuckney</td><td>4284</td><td>-1319</td></tr> <tr><td>Marmaton</td><td>4345</td><td>-1380</td></tr> <tr><td>Upper Ft Scott</td><td>4446</td><td>-1481</td></tr> <tr><td>Johnson</td><td>4568</td><td>-1603</td></tr> <tr><td>Morrow</td><td>4587</td><td>-1622</td></tr> <tr><td>Mississippian</td><td>4641</td><td>-1676</td></tr> </tbody> </table>	Name	Top	Datum	Stone Corral	2454	+ 511	Bs/Stone Corral	2476	+ 489	Heebner	3967	-1002	Lansing	4011	-1046	Muncie Creek	4162	-1197	Hushpuckney	4284	-1319	Marmaton	4345	-1380	Upper Ft Scott	4446	-1481	Johnson	4568	-1603	Morrow	4587	-1622	Mississippian	4641	-1676
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CASING RECORD <input checked="" type="checkbox"/> New <input type="checkbox"/> Used 4731							
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"	23#	230	Common	165	3% CC, 2% Gel

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 <input checked="" type="checkbox"/> Plug well	4735'	60/40 Poz Mix	205	4% Gel, 1/4# sx Flocele

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
		RECEIVED SEP 22 2010 KCC WICHITA	

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 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)</i> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: _____ _____
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ALLIED CEMENTING CO., LLC. 035446

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

SERVICE POINT:

Oakley, Ky

SEP 22 2010

DATE <i>8/31/10</i>	SEC. <i>32</i>	TWP. <i>13</i>	RANGE <i>31</i>	CALLED OUT	ON LOCATION	JOB START <i>7:30</i>	JOB FINISH <i>8:00</i>
Hess Coldwater LEASE		WELL # <i>1-32</i>	LOCATION <i>Oakley 1153E 5th Ave End Curve</i>			COUNTY <i>Case</i>	STATE <i>KY</i>
OLD OR NEW (Circle one) <i>NEW</i>			<i>14 E NINTO</i>				

CONTRACTOR *Murphy 24*

TYPE OF JOB *Surface*

HOLE SIZE *12 1/4* T.D. *230'*

CASING SIZE *8 5/8* DEPTH *230'*

TUBING SIZE DEPTH *2'*

DRILL PIPE *4 1/2* DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG. *15'*

PERFS.

DISPLACEMENT *13.69*

OWNER *Same*

CEMENT AMOUNT ORDERED *165 lbm 307.0 CC*

200 gal

COMMON	<i>165</i>	@	<i>15.45</i>	<i>2549.25</i>
POZMIX		@		
GEL	<i>3</i>	@	<i>20.00</i>	<i>62.40</i>
CHLORIDE	<i>6</i>	@	<i>57.00</i>	<i>342.00</i>
ASC		@		
		@		
		@		
		@		
		@		
		@		
		@		
		@		
HANDLING	<i>174</i>	@	<i>2.40</i>	<i>417.60</i>
MILEAGE	<i>100 5/4 mi</i>			<i>348.00</i>
				TOTAL <i>3726.45</i>

EQUIPMENT

PUMP TRUCK CEMENTER *Alan*

422 HELPER *Wayne*

BULK TRUCK

394 DRIVER *Brandon*

BULK TRUCK

DRIVER

REMARKS:

Cement did circulate

Thank You

Alan, Wayne, Brandon

CHARGE TO: *Grand Mesa*

STREET _____

CITY _____ STATE _____ ZIP _____

SERVICE

DEPTH OF JOB _____

PUMP TRUCK CHARGE *1018.00*

EXTRA FOOTAGE @ _____

MILEAGE *20* @ *7.00* *140.00*

MANIFOLD @ _____

RECEIVED

SEP 22 2010

TOTAL *1158.00*

KCC WICHITA

PLUG & FLOAT EQUIPMENT

@ _____

@ _____

@ _____

@ _____

@ _____

TOTAL _____

To Allied Cementing Co., 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 *Anthony Martin*

SIGNATURE *Anthony Martin*

SALES TAX (If Any) _____

TOTAL CHARGES _____

DISCOUNT _____ IF PAID IN 30 DAYS

ALLIED CEMENTING CO., LLC. 035638

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

SERVICE POINT:

Oakley

DATE <u>9-8-10</u>	SEC <u>32</u>	TWP. <u>13</u>	RANGE <u>31</u>	CALLED OUT	ON LOCATION	JOB START <u>3:00 Am</u>	JOB FINISH <u>4:00 Am</u>
LEASE <u>Hess Gokwater</u>		WELL # <u>1-32</u>	LOCATION <u>Oakley 115 3E 6S</u>		COUNTY <u>Gove</u>	STATE <u>KS</u>	
OLD OR <input checked="" type="radio"/> NEW (Circle one)			<u>1/4 E N10</u>				

CONTRACTOR Murfin Drilling Rig 24 OWNER Same

TYPE OF JOB PTA
 HOLE SIZE 7 7/8 T.D. 4735'
 CASING SIZE _____ DEPTH _____
 TUBING SIZE _____ DEPTH _____
 DRILL PIPE 4 1/2 DEPTH 2435'
 TOOL _____ DEPTH _____
 PRES. MAX _____ MINIMUM _____
 MEAS. LINE _____ SHOE JOINT _____
 CEMENT LEFT IN CSG. _____
 PERFS. _____
 DISPLACEMENT _____

CEMENT
 AMOUNT ORDERED 205 SKS 60/40
4% gel 1/4" FLO-SEAL

COMMON	<u>123 SKS</u>	@	<u>15.45</u>	<u>1900.35</u>
POZMIX	<u>82 SKS</u>	@	<u>8.00</u>	<u>656.00</u>
GEL	<u>7 SKS</u>	@	<u>20.80</u>	<u>145.60</u>
CHLORIDE		@		
ASC		@		
	<u>Flo-seal 51#</u>	@	<u>2.50</u>	<u>127.50</u>
		@		
		@		
		@		
		@		
		@		
HANDLING	<u>214 SKS</u>	@	<u>2.40</u>	<u>513.60</u>
MILEAGE	<u>104 SK/mile</u>			<u>428.00</u>
				TOTAL <u>3771.05</u>

EQUIPMENT

PUMP TRUCK CEMENTER Andrew
 # 423-281 HELPER Larene
 BULK TRUCK
 # 347 DRIVER Brandon
 BULK TRUCK
 # _____ DRIVER _____

REMARKS:

25 SKS @ 2435'
100 SKS @ 1535'
40 SKS @ 280'
10 SKS @ 40'
30 SKS Rat hole

RECEIVED

SEP 22 2010

KCC WICHITA

SERVICE

DEPTH OF JOB	<u>2435'</u>	
PUMP TRUCK CHARGE		<u>1185.00</u>
EXTRA FOOTAGE	@	
MILEAGE	<u>20 miles</u>	@ <u>7.00</u> <u>140.00</u>
MANIFOLD	@	
	@	
	@	
		TOTAL <u>1325.00</u>

Thank you

CHARGE TO: Grand mesa
 STREET _____
 CITY _____ STATE _____ ZIP _____

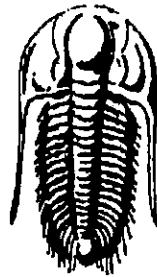
PLUG & FLOAT EQUIPMENT

<u>8 5/8</u>	<u>1 Dry hole plug</u>	@	<u>40.00</u>
		@	
		@	
		@	
		@	
			TOTAL <u>40.00</u>

To Allied Cementing Co., 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.

SALES TAX (If Any) _____
 TOTAL CHARGES _____
 DISCOUNT _____ IF PAID IN 30 DAYS

PRINTED NAME Anthony Martin
 SIGNATURE Anthony Martin



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Grand Mesa**
1700 N Waterfront PKWY
BLDG 600
Wichita, Ks 67206

ATTN: Steve Carl

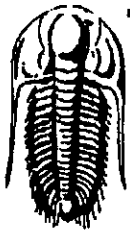
32-13s-31w Gove, Ks
Hess Coldwater #1-32

Start Date: 2010.09.06 @ 12:10:49
End Date: 2010.09.06 @ 20:25:04
Job Ticket #: 039652 DST #: 1

REC'D
SEP 22 2010
CONFIDENTIAL

RECEIVED
SEP 22 2010
KCC WICHITA

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Grand Mesa
1700 N Waterfront PKWY
BLDG 600
Wichita, Ks 67206
ATTN: Steve Carl

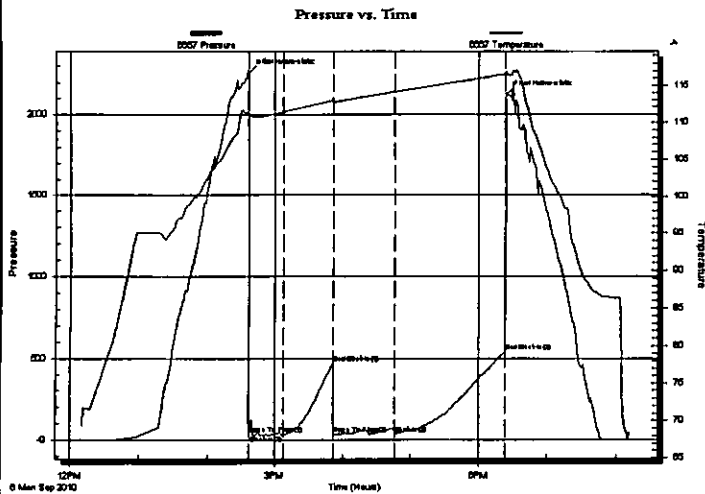
Hess Coldwater #1-32
32-13s-31w Gove, Ks
Job Ticket: 039652 DST#: 1
Test Start: 2010.09.06 @ 12:10:49

GENERAL INFORMATION:

Formation: **Krebs-Johnson**
Deviated: **No Whipstock:** ft (KB)
Time Tool Opened: 14:37:19
Time Test Ended: 20:25:04
Interval: **4526.00 ft (KB) To 4591.00 ft (KB) (TVD)**
Total Depth: **4591.00 ft (KB) (TVD)**
Hole Diameter: **7.88 inches** Hole Condition: Fair
Reference Elevations: **2965.00 ft (KB)**
2960.00 ft (CF)
KB to GR/CF: **5.00 ft**
Test Type: **Conventional Bottom Hole**
Tester: **Shane McBride**
Unit No: **40**

Serial #: **6667** Inside
Press@RunDepth: **35.98 psig @ 4527.00 ft (KB)**
Start Date: **2010.09.06** End Date: **2010.09.06** Capacity: **8000.00 psig**
Start Time: **12:10:49** End Time: **20:13:04** Last Calib.: **2010.09.06**
Time On Btm: **2010.09.06 @ 14:37:04**
Time Off Btm: **2010.09.06 @ 18:24:49**

TEST COMMENT: **1/8" in blow died in 20 min.**
No return
No blow
No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2260.87	111.44	Initial Hydro-static
1	35.53	110.97	Open To Flow (1)
31	32.92	111.37	Shut-In(1)
75	469.99	112.93	End Shut-In(1)
75	33.97	112.65	Open To Flow (2)
129	35.98	114.13	Shut-In(2)
227	538.83	116.54	End Shut-In(2)
228	2127.47	116.44	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
3.00	heavy mud 100m	0.01

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Grand Mesa
1700 N Waterfront PKWY
BLDG 600
Wichita, Ks 67206
ATTN: Steve Carl

Hess Coldwater #1-32
32-13s-31w Gove, Ks
Job Ticket: 039652 DST#: 1
Test Start: 2010.09.06 @ 12:10:49

Tool Information

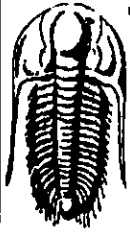
Drill Pipe:	Length: 4397.00 ft	Diameter: 3.80 inches	Volume: 61.68 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 75000.00 lb
			<u>Total Volume: 62.27 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	18.00 ft			String Weight: Initial 54000.00 lb
Depth to Top Packer:	4526.00 ft			Final 54000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	65.00 ft			
Tool Length:	92.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4500.00	
Shut In Tool	5.00			4505.00	
Hydraulic tool	5.00			4510.00	
Jars	5.00			4515.00	
Safety Joint	2.00			4517.00	
Packer	5.00			4522.00	27.00 Bottom Of Top Packer
Packer	4.00			4526.00	
Stubb	1.00			4527.00	
Recorder	0.00	6771	Outside	4527.00	
Recorder	0.00	6667	Inside	4527.00	
Perforations	26.00			4553.00	
Change Over Sub	1.00			4554.00	
Drill Pipe	31.00			4585.00	
Change Over Sub	1.00			4586.00	
Bullnose	5.00			4591.00	65.00 Bottom Packers & Anchor

Total Tool Length: 92.00



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Grand Mesa
1700 N Waterfront PKWY
BLDG 600
Wichita, Ks 67206
ATTN: Steve Carl

Hess Coldwater #1-32
32-13s-31w Gove, Ks
Job Ticket: 039652 DST#: 1
Test Start: 2010.09.06 @ 12:10:49

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	0 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	0 ppm
Viscosity: 67.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.17 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 2200.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

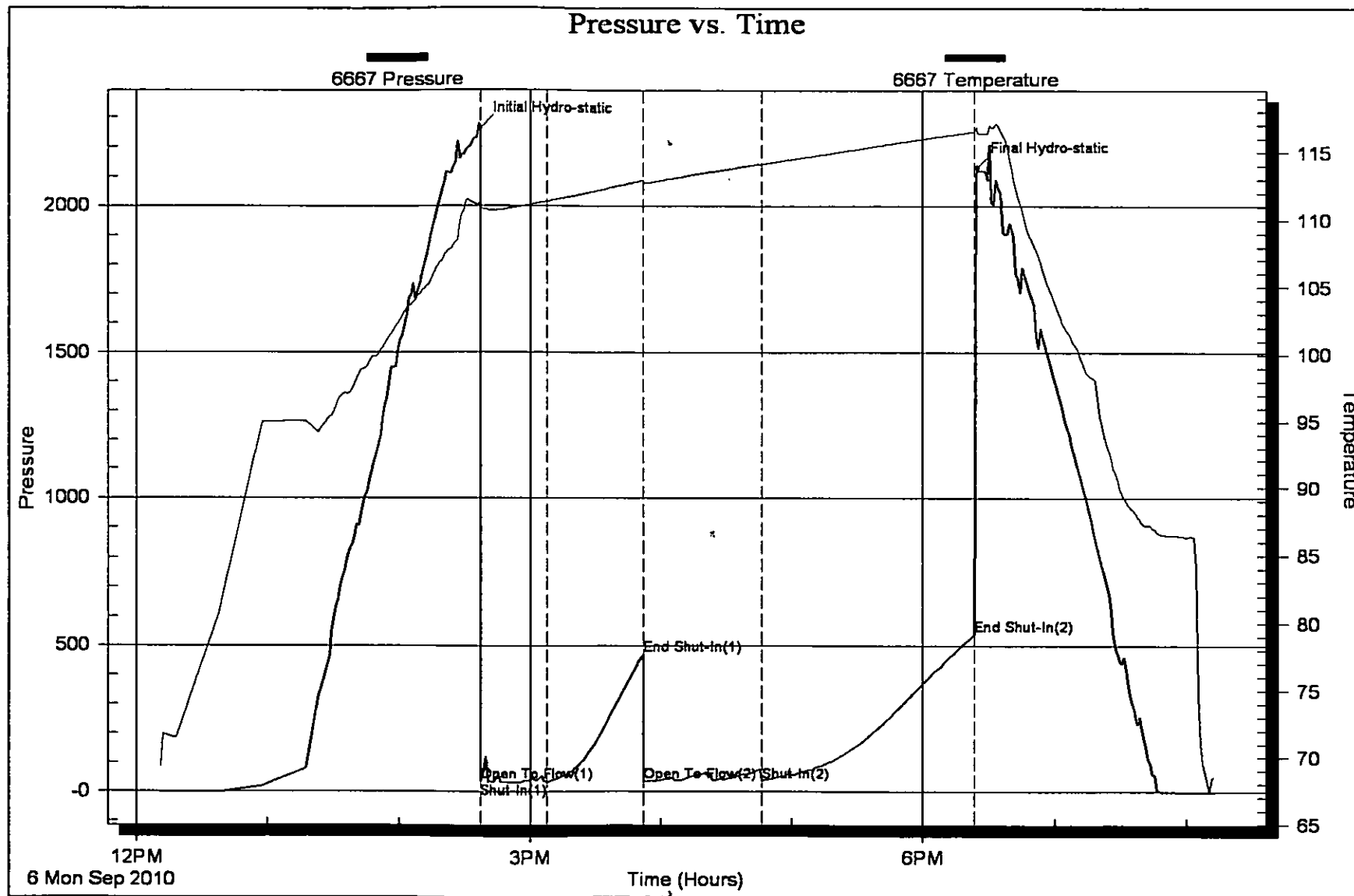
Length ft	Description	Volume bbl
3.00	heavy mud 100m	0.015

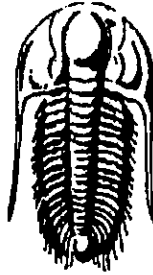
Total Length: 3.00 ft Total Volume: 0.015 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:





TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Grand Mesa**

1700 N Waterfront PKWY
BLDG 600
Wichita, Ks 67206

ATTN: Steve Carl

32-13s-31w Gove, Ks

Hess Coldwater #1-32

Start Date: 2010.09.07 @ 03:36:11

End Date: 2010.09.07 @ 09:45:56

Job Ticket #: 039652 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Grand Mesa

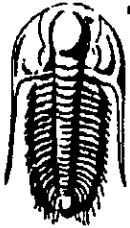
Hess Coldwater #1-32

32-13s-31w Gove, Ks

DST # 2

Morrow

2010.09.07



**TRILLOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Grand Mesa
1700 N Waterfront PKWY
BLDG 600
Wichita, Ks 67206
ATTN: Steve Carl

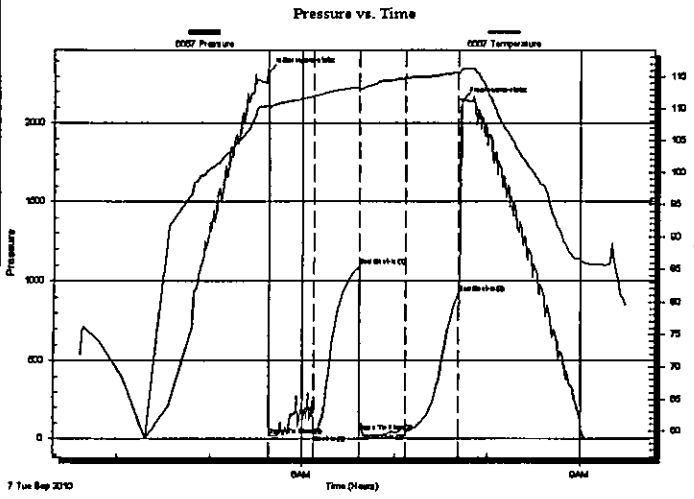
Hess Coldwater #1-32
32-13s-31w Gove, Ks
Job Ticket: 039652 DST#: 2
Test Start: 2010.09.07 @ 03:36:11

GENERAL INFORMATION:

Formation: **Morrow**
 Deviated: **No** Whipstock: **ft (KB)**
 Time Tool Opened: **05:38:11**
 Time Test Ended: **09:45:56**
 Interval: **4588.00 ft (KB) To 4618.00 ft (KB) (TVD)**
 Total Depth: **4591.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches** Hole Condition: **Fair**
 Test Type: **Conventional Bottom Hole**
 Tester: **Shane McBride**
 Unit No: **40**
 Reference Elevations: **2965.00 ft (KB)**
2960.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 6667 Inside
 Press@RunDepth: **39.00 psig @ 4589.00 ft (KB)** Capacity: **8000.00 psig**
 Start Date: **2010.09.07** End Date: **2010.09.07** Last Calib.: **2010.09.07**
 Start Time: **03:36:11** End Time: **09:29:56** Time On Btm: **2010.09.07 @ 05:37:56**
 Time Off Btm: **2010.09.07 @ 07:43:26**

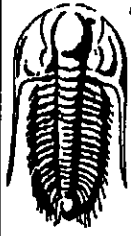
TEST COMMENT: Weak blow died in 15 min
 No return
 No blow
 No return



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2332.29	110.26	Initial Hydro-static
1	18.92	109.92	Open To Flow (1)
30	24.98	111.90	Shut-In(1)
59	1090.58	113.34	End Shut-In(1)
59	45.17	112.60	Open To Flow (2)
89	39.00	114.78	Shut-In(2)
124	924.40	115.66	End Shut-In(2)
126	2144.26	116.21	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
5.00	s o c m 3%o 97%m	0.02

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Grand Mesa
1700 N Waterfront PKWY
BLDG 600
Wichita, Ks 67206
ATTN: Steve Carl

Hess Coldwater #1-32
32-13s-31w Gove, Ks
Job Ticket: 039652 DST#: 2
Test Start: 2010.09.07 @ 03:36:11

Tool Information

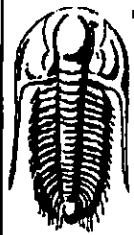
Drill Pipe:	Length: 4459.00 ft	Diameter: 3.80 inches	Volume: 62.55 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Full Loose: 80000.00 lb
		Total Volume: 63.14 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	18.00 ft			String Weight: Initial 55000.00 lb
Depth to Top Packer:	4588.00 ft			Final 55000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	30.00 ft			
Tool Length:	57.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4562.00	
Shut In Tool	5.00			4567.00	
Hydraulic tool	5.00			4572.00	
Jars	5.00			4577.00	
Safety Joint	2.00			4579.00	
Packer	5.00			4584.00	27.00 Bottom Of Top Packer
Packer	4.00			4588.00	
Stubb	1.00			4589.00	
Recorder	0.00	6771	Outside	4589.00	
Recorder	0.00	6667	Inside	4589.00	
Perforations	24.00			4613.00	
Bullnose	5.00			4618.00	30.00 Bottom Packers & Anchor

Total Tool Length: 57.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Grand Mesa
1700 N Waterfront PKWY
BLDG 600
Wichita, Ks 67206
ATTN: Steve Carl

Hess Coldwater #1-32
32-13s-31w Gove, Ks
Job Ticket: 039652 DST#: 2
Test Start: 2010.09.07 @ 03:36:11

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	0 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	0 ppm
Viscosity: 67.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.17 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 2200.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

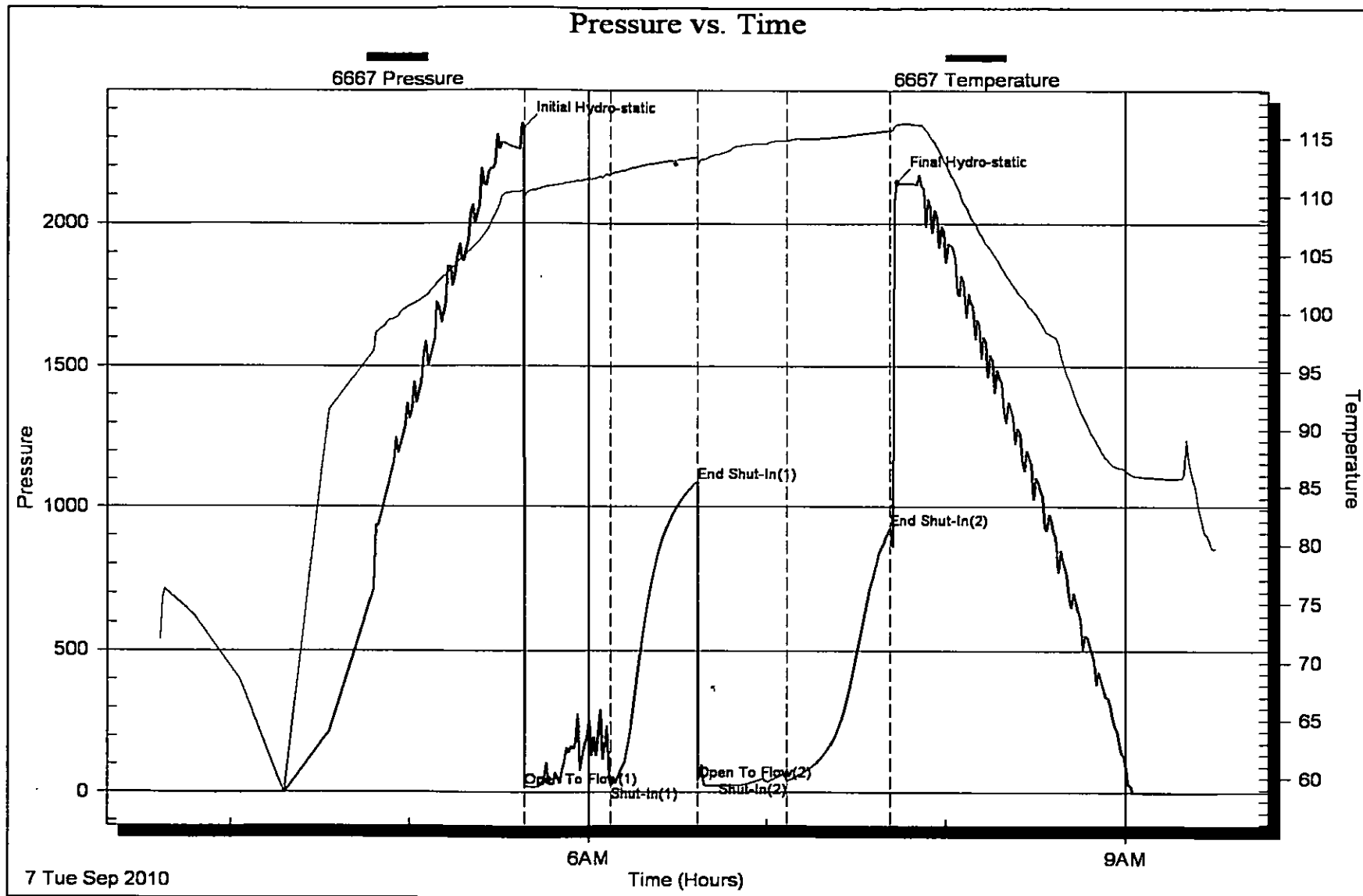
Length ft	Description	Volume bbl
5.00	s o c m 3%o 97%m	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

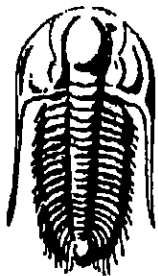
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments:



7 Tue Sep 2010



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Grand Mesa**

1700 N Waterfront PKWY
BLDG 600
Wichita, Ks 67206

ATTN: Steve Carl

32-13s-31w Gove, Ks

Hess Coldwater #1-32

Start Date: 2010.09.07 @ 18:26:05

End Date: 2010.09.08 @ 00:50:20

Job Ticket #: 039654 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Grand Mesa

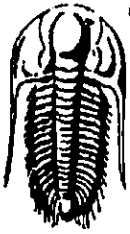
Hess Coldwater #1-32

32-13s-31w Gove, Ks

DST # 3

Morrow

2010.09.07



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Grand Mesa
1700 N Waterfront PKWY
BLDG 600
Wichita, Ks 67206
ATTN: Steve Carl

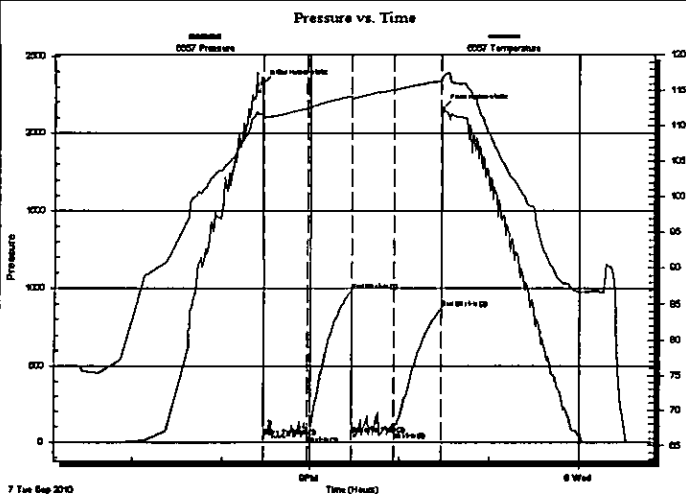
Hess Coldwater #1-32
32-13s-31w Gove, Ks
Job Ticket: 039654 DST#: 3
Test Start: 2010.09.07 @ 18:26:05

GENERAL INFORMATION:

Formation: **Morrow**
Deviated: **No** Whipstock: ft (KB)
Time Tool Opened: 20:27:50
Time Test Ended: 00:50:20
Interval: **4586.00 ft (KB) To 4647.00 ft (KB) (TVD)**
Total Depth: **4647.00 ft (KB) (TVD)**
Hole Diameter: **7.88 inches** Hole Condition: Fair
Test Type: Conventional Bottom Hole
Tester: Shane McBride
Unit No: 40
Reference Elevations: 2965.00 ft (KB)
2960.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: **6667** Inside
Press@RunDepth: 72.09 psig @ 4587.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2010.09.07 End Date: 2010.09.08 Last Calib.: 2010.09.08
Start Time: 18:26:05 End Time: 00:32:20 Time On Btm: 2010.09.07 @ 20:27:35
Time Off Btm: 2010.09.07 @ 22:28:50

TEST COMMENT: 1/2" in blow died back to 1/4" in
No return
No blow
No return



PRESSURE SUMMARY

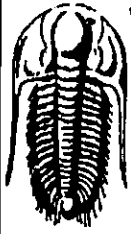
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2326.64	111.76	Initial Hydro-static
1	41.93	111.27	Open To Flow (1)
31	46.32	112.45	Shut-In(1)
60	980.70	114.14	End Shut-In(1)
60	51.89	113.77	Open To Flow (2)
89	72.09	115.03	Shut-In(2)
120	869.46	116.39	End Shut-In(2)
122	2162.17	117.03	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	heavy mud 100% m	0.05

Gas Rates

	Choke (Inches)	Pressure (psig)	Gas Rate (Mc/d)



**TRILOBITE
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DRILL STEM TEST REPORT

TOOL DIAGRAM

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BLDG 600
Wichita, Ks 67206
ATTN: Steve Carl

Hess Coldwater #1-32
32-13s-31w Gove, Ks
Job Ticket: 039654 DST#: 3
Test Start: 2010.09.07 @ 18:26:05

Tool Information

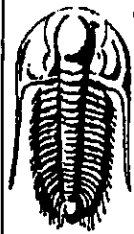
Drill Pipe:	Length: 4459.00 ft	Diameter: 3.80 inches	Volume: 62.55 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 63.14 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 55000.00 lb
Depth to Top Packer:	4586.00 ft			Final 56000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	61.00 ft			
Tool Length:	88.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4560.00	
Shut In Tool	5.00			4565.00	
Hydraulic tool	5.00			4570.00	
Jars	5.00			4575.00	
Safety Joint	2.00			4577.00	
Packer	5.00			4582.00	27.00 Bottom Of Top Packer
Packer	4.00			4586.00	
Stubb	1.00			4587.00	
Recorder	0.00	6771	Outside	4587.00	
Recorder	0.00	6667	Inside	4587.00	
Perforations	22.00			4609.00	
Change Over Sub	1.00			4610.00	
Drill Pipe	31.00			4641.00	
Change Over Sub	1.00			4642.00	
Bullnose	5.00			4647.00	61.00 Bottom Packers & Anchor

Total Tool Length: 88.00



**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

Grand Mesa
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BLDG 600
Wichita, Ks 67206
ATTN: Steve Carl

Hess Coldwater #1-32
32-13s-31w Gove, Ks
Job Ticket: 039654 DST#: 3
Test Start: 2010.09.07 @ 18:26:05

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	0 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	0 ppm
Viscosity: 66.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.98 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 2500.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	heavy mud 100%m	0.049

Total Length: 10.00 ft Total Volume: 0.049 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:

