



WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

- New Well Re-Entry Workover
- Oil WSW SWD SIOW
- Gas D&A ENHR SIGW
- OG GSW Temp. Abd.
- CM (Coal Bed Methane)
- Cathodic Other (Core, Expl., etc.): _____

If Workover/Re-entry: Old Well Info as follows:

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

- Deepening Re-perf. Conv. to ENHR Conv. to SWD
- Conv. to GSW
- Plug Back: _____ Plug Back Total Depth _____
- Commingled Permit #: _____
- Dual Completion Permit #: _____
- SWD Permit #: _____
- ENHR Permit #: _____
- GSW Permit #: _____

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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API No. 15 - _____

Spot Description: _____

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

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite: _____

Operator Name: _____

Lease Name: _____ License #: _____

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

County: _____ Permit #: _____

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

- Letter of Confidentiality Received
Date: _____
- Confidential Release Date: _____
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: _____ Date: _____



1068805

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed. Attach complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Submitted Electronically <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i> List All E. Logs Run: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
_____ 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: Yes No

Date of First, Resumed Production, SWD or ENHR. _____ Producing Method: Flowing Pumping Gas Lift Other *(Explain)* _____

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
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DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____ <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Grand Mesa Operating Company
Well Name	HESS-CHRISTY 1-34
Doc ID	1068805

Tops

Name	Top	Datum
Stone Corral	2414	+515
Bs/Stone Corral	2436	+493
Heebner	3905	-976
Lansing	3951	-1022
Muncie Creek	4103	-1174
Stark	4187	-1258
Hushpuckney	4223	-1294
Marmaton	4288	-1359
Little Osage	4415	-1486
Morrow	4548	-1617
Mississippian	4573	-1644
LTD	4673	

Conservation Division
Finney State Office Building
130 S. Market, Rm. 2078
Wichita, KS 67202-3802



Phone: 316-337-6200
Fax: 316-337-6211
<http://kcc.ks.gov/>

Mark Sievers, Chairman
Ward Loyd, Commissioner
Thomas E. Wright, Commissioner

Sam Brownback, Governor

November 23, 2011

Ronald N. Sinclair
Grand Mesa Operating Company
1700 N WATERFRONT PKWY BLDG 600
WICHITA, KS 67206-5514

Re: ACO1
API 15-109-21034-00-00
HESS-CHRISTY 1-34
NE/4 Sec.34-13S-32W
Logan County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully,
Ronald N. Sinclair

ALLIED CEMENTING CO., LLC. 035979

Federal Tax I.D.# 20-5975804

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

SERVICE POINT:

Oakley, KS

DATE <i>9/2/14</i>	SEC <i>34</i>	TWP. <i>13</i>	RANGE <i>32</i>	CALLED OUT	ON LOCATION	JOB START <i>8:00</i>	JOB FINISH <i>8:30</i>
LEASER <i>Hess-Christy</i>	WELL # <i>1-32</i>	LOCATION <i>Oakley 17 S.W. 1/4 W. 1/2 T. 13 R. 32</i>			COUNTY <i>Logan</i>	STATE <i>KS</i>	

CONTRACTOR *Murphy 24*

TYPE OF JOB *surf oil*

HOLE SIZE *12 1/4* T.D. *220.1*

CASING SIZE *8 5/8* DEPTH *220.1*

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG. *15'*

PERFS.

DISPLACEMENT *13.05*

OWNER *Same*

CEMENT AMOUNT ORDERED *165 Comm 390cc 20 gel*

COMMON	<i>165</i>	@ <i>16.25</i>	<i>2681.25</i>
POZMIX		@	
GEL	<i>3</i>	@ <i>21.25</i>	<i>63.75</i>
CHLORIDE	<i>6</i>	@ <i>58.00</i>	<i>348.00</i>
ASC		@	
HANDLING	<i>174 SKS</i>	@ <i>2.20</i>	<i>382.80</i>
MILBAGE	<i>118 SK/mile</i>		<i>363.66</i>
TOTAL			<i>3849.36</i>

EQUIPMENT

PUMP TRUCK CEMENTER *Alan*

422 HELPER *Wayne*

BULK TRUCK DRIVER *Jerry*

407

BULK TRUCK DRIVER

REMARKS:

Run Csg, Circulate, mix cement

Displace cement

Cement did Circulate

Thank You Alan, Wayne, Jerry

CHARGE TO: *Grand Mesa*

STREET

CITY STATE ZIP

SERVICE

DEPTH OF JOB	<i>220'</i>	
PUMP TRUCK CHARGE		<i>1125.00</i>
EXTRA FOOTAGE	@	
MILEAGE	<i>19 x 2</i>	@ <i>7.00</i> <i>266.00</i>
MANIFOLD	@	<i>200.00</i>
<i>Liter Vehicle 19x2</i>	@ <i>4.00</i>	<i>152.00</i>
TOTAL <i>1743.00</i>		

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.

SALES TAX (if Any)

TOTAL CHARGES

DISCOUNT IF PAID IN 30 DAYS

PRINTED NAME *Anthony Martin*

SIGNATURE *Anthony Martin*

JOB LOG

SWIFT Services, Inc.

DATE 09-16-11 PAGE NO. 7

CUSTOMER GRAND MESA WELL NO. 1-34 LEASE Hess-CHRISTY JOB TYPE 2-STAGE TICKET NO. 20223

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	0700							ON LOCATION CMT: Bottom 17550 STD EA-2 Top 300 SWS-SMO RTO 4672, SET PIPE 4669, SJ100, TUBERY 4658 5 1/2 IS 5 1/4 DIV. ON TOP # 55, 24WOT CENT 1, 3, 6, 9, 12, 15, 54, BASKETS 3, 55
	0715							START GY & FLAT FUV
	0730							TALUSITUM - DROP BALL
	0740							BREAK CIRC & ROTATE PIPE
	0755	5.5	12.0		✓		200	500CM MUD FLUSH
		S	20.0		-		S	2000S WCL FLUSH
	1010		42.5		✓			175 50 EA 2CMT DROP PLUG, WASHOUT P.L.
	1014	7.0	0		-		200	START DISP W/H2O
		S	54.0		-		S	" " W/RIG MUD
			95.0		-		500	
			100.0		-		600	
			105.0		-		750	
	1030	4.7	110.8		-		1500	LAND PLUG RELEASE PSZ, DRY, DROP DIV OPENING DART WASHUP TUBING
	1040				✓		1100	OPEN DIV, CIRC W/RIG
	1040		7.5					PLUG RH 30, MH 15
	1245	6.0	20.0		-		200	2000S WCL FLUSH
		S	143.0		-		S	2550S SMO CMT DROP DIV, CLOSING PLUG
	1320	6.0	0		-		200	START DISP
		S	40.0		-		400	CIRC CMT TOP IT! 30SIS
			50.0		-		600	
	1330		57.6		-		1500	LAND & CLOSE DIV.
	1400							JDB COMPLETE THANK YOU! DAVE, JOSH, DAVID, ROB

Acidizing Report

PRO-STIM CHEMICALS

Date 10-11-11

Customer <i>Grand Mesa</i>	Pro-Stim Chemical Yard <i>Dighton</i>	Pro-Stim Number <i>A6 57985</i>
Well Name & Number <i>Hess Christy 1-34</i>	Field	Formation <i>Spot 1 brl</i>
County <i>Lujan</i> State <i>KS</i>	BHT	YD
		Interval <i>4513-4520</i>

Well Type: Completion Recompletion Workover Oil Gas Water Disposal Perf OH

Job Pumped Via: Tubing Casing Annulus CTU Combination Plug Depth Packer Depth
4467

Casing Size:	GRD	WT	Depth	Tubing Size: <i>2 7/8</i>	GRD	WT	Spot
Casing Vol.	Tbg Vol	<i>26</i>	Ann Vol	OH Vol	Total Displacement		
Maximum Pressure	Tubing	Casing	Proposed Pump Time	AOL	Leave Loc		

Special Instructions:

*250 gals BWR-1 15070
w/ additives*

Treatment Record

Time	Type Fluid	Rate BMP	Increment Vol Bbls	Cum Vol Bbls	Pressure		Observations
					Tubing	Casing	
							Safety Meeting
<i>1</i>	<i>Acid</i>		<i>Spot</i>	<i>1</i>			Pre Test to _____ psi
<i>12</i>	<i>Acid</i>	<i>3.0</i>		<i>6</i>			<i>Acid Cone Loaded</i>
<i>19</i>	<i>Flush</i>	<i>0</i>		<i>26.5</i>	<i>60</i>		
<i>22</i>	<i>Flush</i>	<i>0</i>		<i>26.6</i>	<i>300</i>		
<i>28</i>	<i>Flush</i>	<i>0</i>		<i>26.8</i>	<i>600</i>		<i>staging</i>
<i>46</i>	<i>Flush</i>	<i>0</i>		<i>27.5</i>	<i>700</i>		
<i>51</i>	<i>Flush</i>	<i>.2</i>		<i>28.3</i>	<i>550</i>		
<i>53</i>	<i>Flush</i>	<i>1</i>		<i>29.5</i>	<i>520</i>		
<i>56</i>	<i>Flush</i>	<i>1.5</i>		<i>33.5</i>	<i>550</i>		<i>Done</i>

Treatment Synopses

Avg Inj Rate	Fluid BPM	Total Injected	H2O <i>27.5 brl</i>	Acid <i>6 brl</i>	Oil
Treating Pres.	Max <i>700</i>	Final <i>550</i>	Avg. <i>600</i>	ISIP <i>400</i>	5'SI <i>VAC</i> 10'SI 15'SI
Customer Representative				Pro-Stim Supervisor	<i>Shannon M.</i>

Pro-Stim Chemicals, LLC

OCT 28 2011

Invoice

P.O. Box 25
 Cheyenne Wells, CO 80810

Date	Invoice #
10/15/2011	57985

Bill To
Grand Mesa Operating Co. 1700 N. Waterfront Pkwy - Bldg 600 Wichita, KS 67206-6614

Ship To

Requested By	Terms	Sales Rep.	Ship	Lease
	Net 30	S M	10/11/2011	HESS CHRISTY 1-

Quantity	Item Code	Description	Price Each	Amount
250	RWR-1 15%	GALLONS	2.82	705.00
5	RENAB	GALLONS	17.89	89.45
1	AR-630	GALLONS	25.79	25.79
28	KCL BIOCIDE - 2%	BRLS	3.16	88.48
1	DUMP JOB		158.00	158.00T
3	TRUCK TIME	HOURS	95.00	285.00T
		Sales Tax - LOGAN CO.	7.80%	34.55

			Total	\$1,386.27
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Phone #	Fax #	E-mail
719-767-8071	719-767-5925	prostim@hotmail.com

*Paul
 342 0791
 5412 sid*



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Grand Mesa Operating Company

Hess-Christy 1-34

1700 N Waterfront PKWY
BLDG 600 Wichita KS
67206-5514
ATTN: Bob Schreiber

34-13-32

Job Ticket: 042132

DST#: 1

Test Start: 2011.09.10 @ 23:36:00

GENERAL INFORMATION:

Formation: **Lansing "C"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 01:29:15

Time Test Ended: 06:55:00

Test Type: Conventional Bottom Hole

Tester: Jace McKinney

Unit No: 28

Interval: 3976.00 ft (KB) To 3996.00 ft (KB) (TVD)

Reference Elevations: 2929.00 ft (KB)

Total Depth: 3996.00 ft (KB) (TVD)

2924.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8675 Inside

Press @ Run Depth: 145.28 psig @ 3977.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.09.10

End Date:

2011.09.11

Last Calib.: 2011.09.11

Start Time: 23:36:01

End Time:

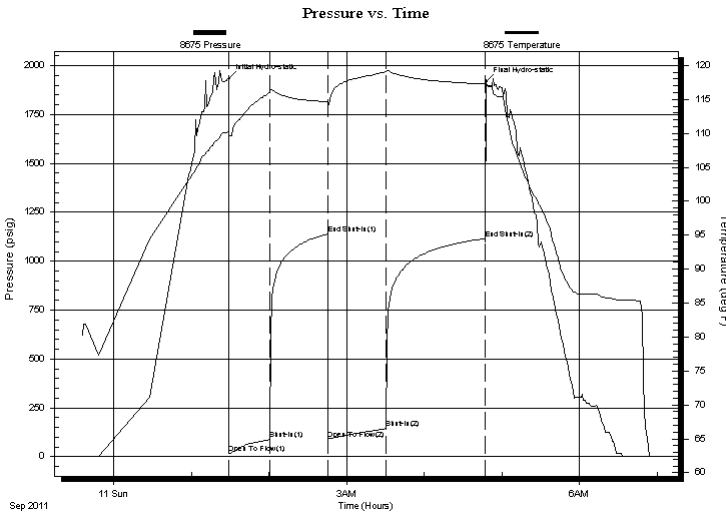
06:55:00

Time On Btm: 2011.09.11 @ 01:29:00

Time Off Btm: 2011.09.11 @ 04:48:00

TEST COMMENT: Built to 8 1/2" blow
No return blow
B.O.B. in 43 min.
No return blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1932.31	110.35	Initial Hydro-static
1	15.34	109.44	Open To Flow (1)
32	87.57	116.08	Shut-In(1)
77	1137.61	114.67	End Shut-In(1)
77	91.00	113.97	Open To Flow (2)
122	145.28	119.07	Shut-In(2)
198	1115.72	117.28	End Shut-In(2)
199	1918.76	117.10	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
117.00	w 100%W	0.58
168.00	mcw 20%M 80%W	2.36

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Grand Mesa Operating Company

Hess-Christy 1-34

1700 N Waterfront PKWY
BLDG 600 Wichita KS
67206-5514
ATTN: Bob Schreiber

34-13-32

Job Ticket: 042132

DST#: 1

Test Start: 2011.09.10 @ 23:36:00

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:

60000 ppm

Viscosity: 59.00 sec/qt

Cushion Volume:

bbf

Water Loss: 7.99 in³

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 bbf
117.00	w 100%W	0.575
168.00	mcw 20%M 80%W	2.357

Total Length: 285.00 ft Total Volume: 2.932 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

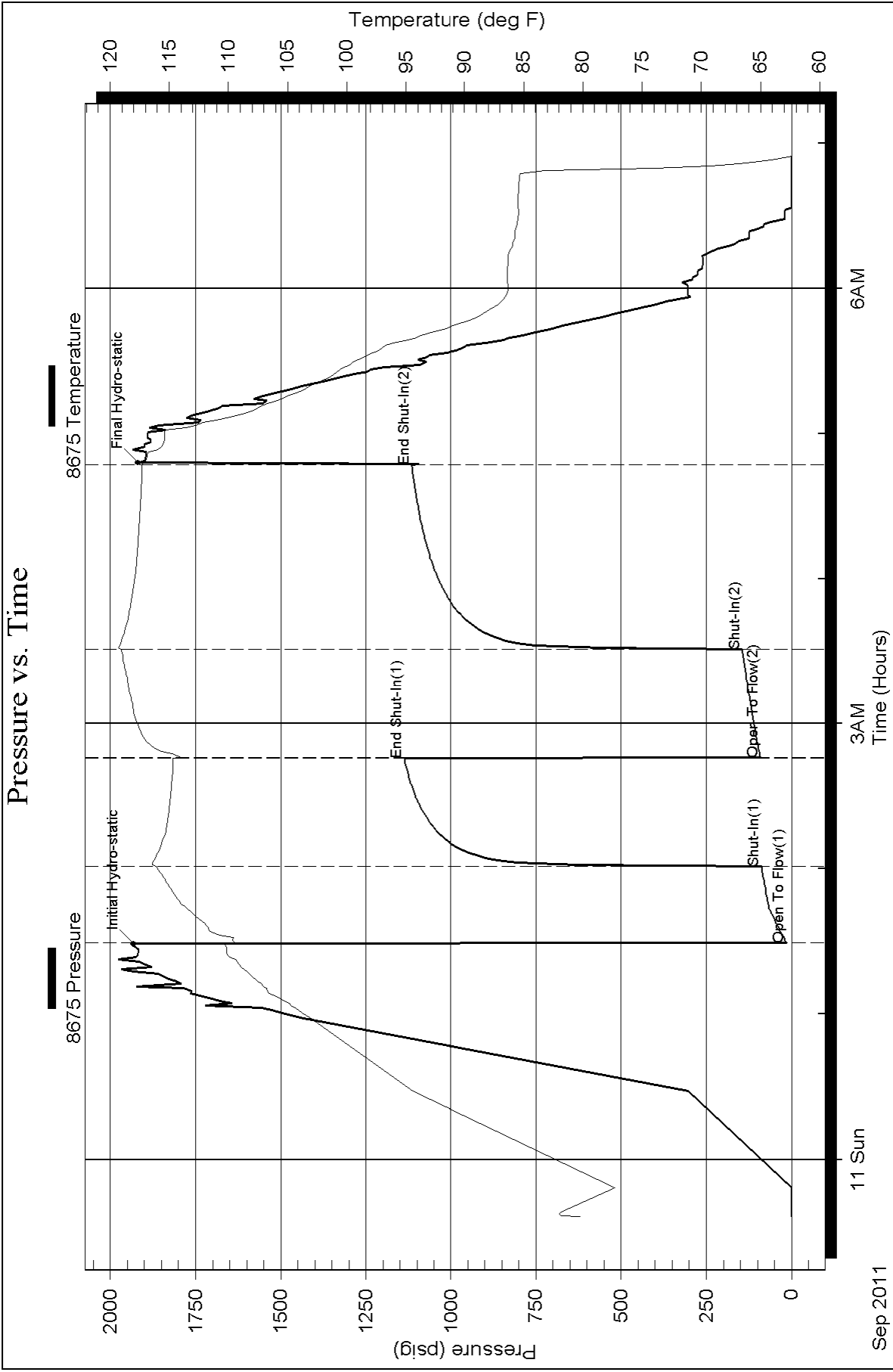
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW: .16 @ 54 F = 60,000

Pressure vs. Time





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Grand Mesa Operating Company

Hess-Christy 1-34

1700 N Waterfront PKWY
BLDG 600 Wichita KS
67206-5514
ATTN: Bob Schreiber

34-13-32

Job Ticket: 042133

DST#: 2

Test Start: 2011.09.12 @ 13:30:00

GENERAL INFORMATION:

Formation: **Kansas City "L"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:25:30

Time Test Ended: 18:59:45

Test Type: Conventional Bottom Hole

Tester: Jace McKinney

Unit No: 28

Interval: 4216.00 ft (KB) To 4250.00 ft (KB) (TVD)

Reference Elevations: 2929.00 ft (KB)

Total Depth: 4250.00 ft (KB) (TVD)

2924.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8675

Inside

Press @ Run Depth: 50.29 psig @ 4217.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.09.12

End Date:

2011.09.12

Last Calib.:

2011.09.12

Start Time: 13:30:01

End Time:

18:59:45

Time On Btm:

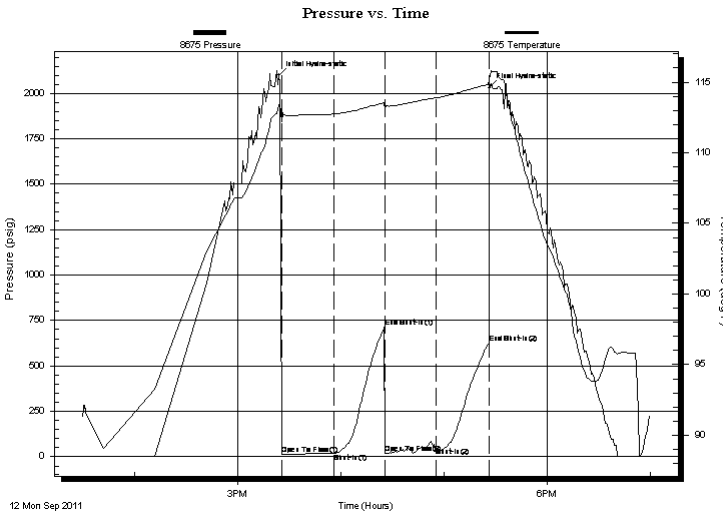
2011.09.12 @ 15:24:00

Time Off Btm:

2011.09.12 @ 17:26:15

TEST COMMENT: Weak surface blow
No return blow
Very weak surface blow
No return blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2099.48	113.31	Initial Hydro-static
2	13.97	112.22	Open To Flow (1)
32	16.95	112.75	Shut-In(1)
62	714.68	113.54	End Shut-In(1)
62	17.38	113.09	Open To Flow (2)
92	50.29	113.90	Shut-In(2)
122	625.36	114.83	End Shut-In(2)
123	2031.66	115.20	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	m 100%M	0.02

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Grand Mesa Operating Company

Hess-Christy 1-34

1700 N Waterfront PKWY
BLDG 600 Wichita KS
67206-5514
ATTN: Bob Schreiber

34-13-32

Job Ticket: 042133

DST#: 2

Test Start: 2011.09.12 @ 13:30:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 55.00 sec/qt

Water Loss: 7.20 in³

Resistivity: 0.00 ohm.m

Salinity: 3200.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

Water Salinity: deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	m 100%M	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0

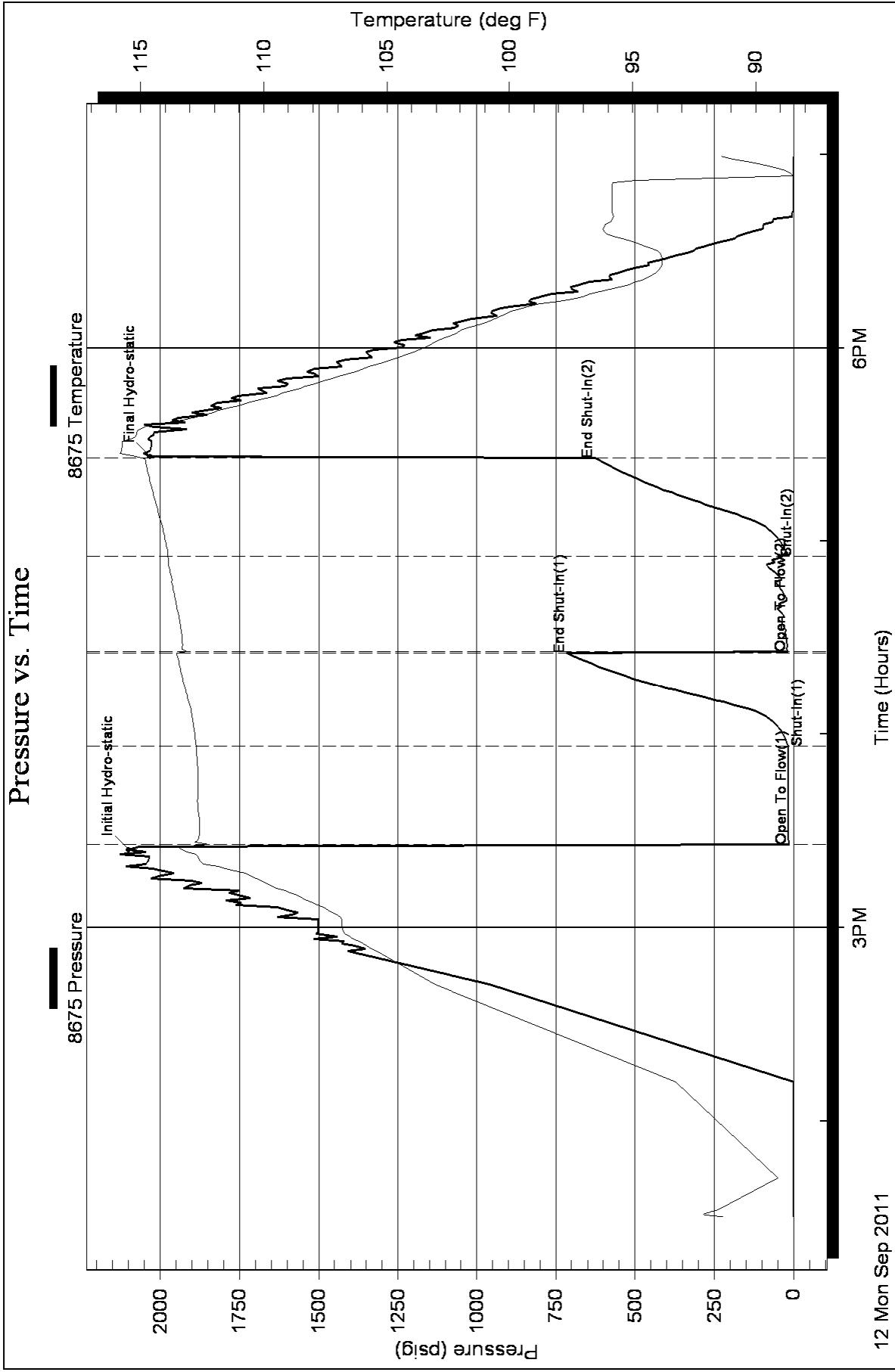
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Grand Mesa Operating Company

Hess-Christy 1-34

1700 N Waterfront PKWY
BLDG 600 Wichita KS
67206-5514
ATTN: Bob Schreiber

34-13-32

Job Ticket: 042134

DST#: 3

Test Start: 2011.09.13 @ 19:00:00

GENERAL INFORMATION:

Formation: **Fort Scott**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:03:15

Time Test Ended: 03:14:45

Test Type: Conventional Bottom Hole

Tester: Jace McKinney

Unit No: 28

Interval: 4381.00 ft (KB) To 4469.00 ft (KB) (TVD)

Reference Elevations: 2929.00 ft (KB)

Total Depth: 4469.00 ft (KB) (TVD)

2924.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8675

Inside

Press @ Run Depth: 374.23 psig @ 4382.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.09.13

End Date:

2011.09.14

Last Calib.:

2011.09.14

Start Time: 19:00:01

End Time:

03:14:45

Time On Btm:

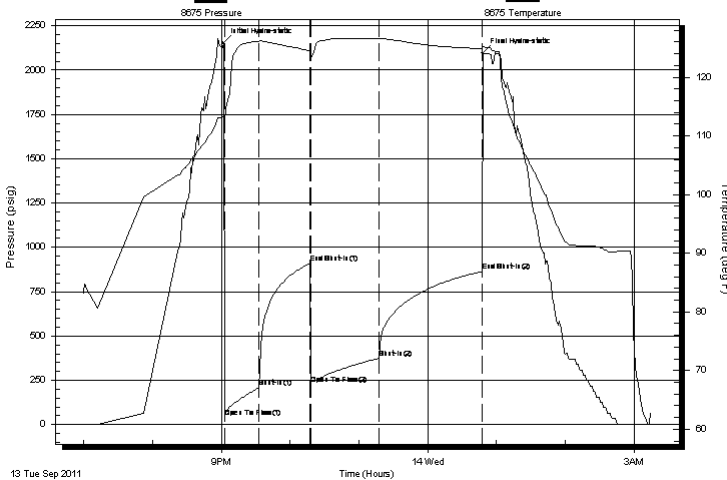
2011.09.13 @ 21:02:00

Time Off Btm:

2011.09.14 @ 00:48:00

TEST COMMENT: B.O.B. in 5 1/2 min.
No return blow
B.O.B. in 10 1/2 min.
No return blow

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2154.86	113.21	Initial Hydro-static
2	41.78	112.17	Open To Flow (1)
31	208.46	126.12	Shut-In(1)
76	910.39	124.46	End Shut-In(1)
76	228.51	124.03	Open To Flow (2)
136	374.23	126.57	Shut-In(2)
226	864.01	124.86	End Shut-In(2)
226	2096.37	125.23	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
241.00	w 100%W	2.31
186.00	mcw 10%M 90%W	2.61
283.00	mcw 50%M 50%W	3.97

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Grand Mesa Operating Company

Hess-Christy 1-34

1700 N Waterfront PKWY
BLDG 600 Wichita KS
67206-5514
ATTN: Bob Schreiber

34-13-32

Job Ticket: 042134

DST#: 3

Test Start: 2011.09.13 @ 19:00:00

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:

80000 ppm

Viscosity: 59.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.98 in³

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
241.00	w 100%W	2.315
186.00	mcw 10%M 90%W	2.609
283.00	mcw 50%M 50%W	3.970

Total Length: 710.00 ft Total Volume: 8.894 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

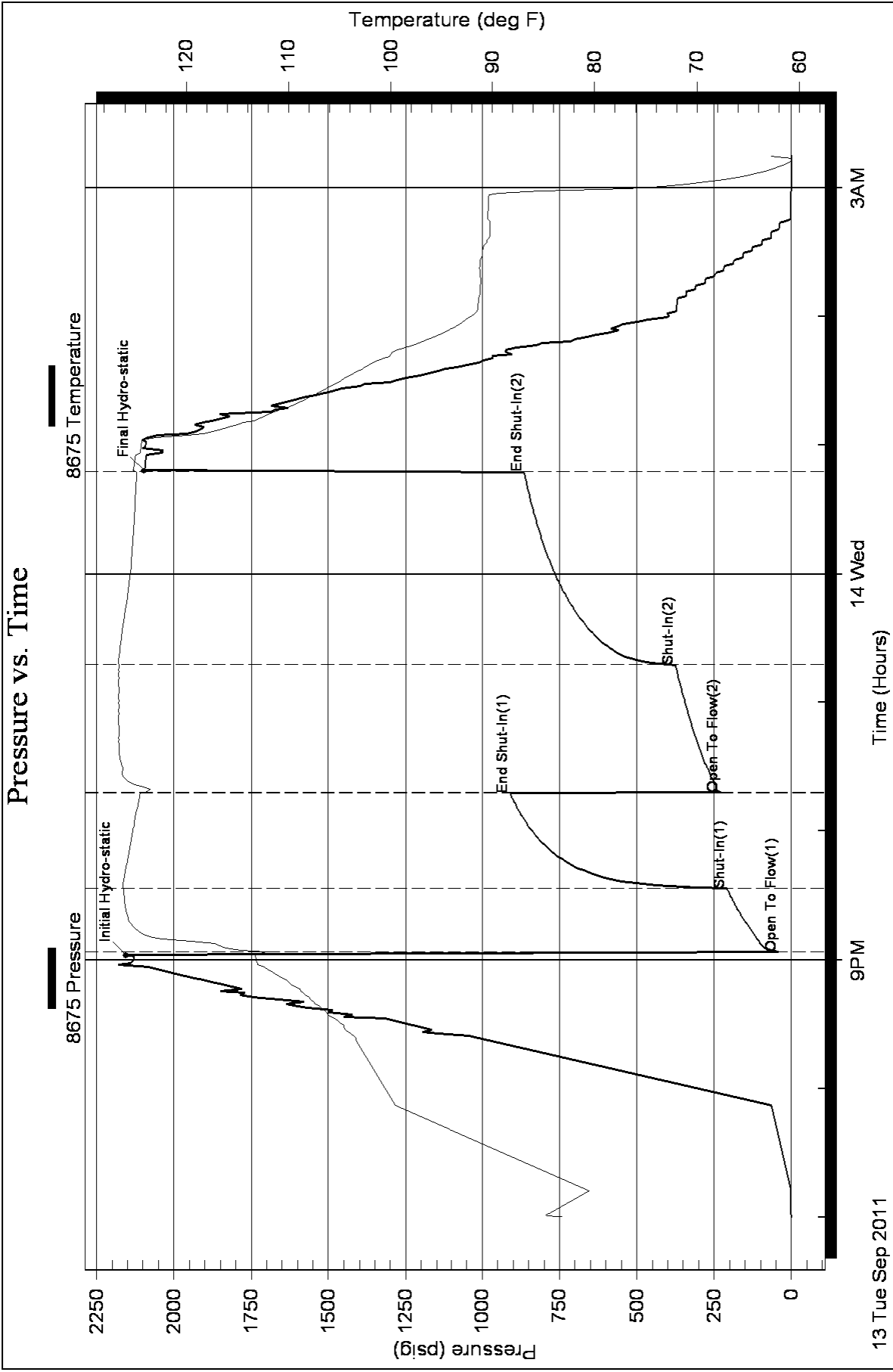
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW: .12 @ 60 F = 80,000

Pressure vs. Time





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Grand Mesa Operating Company

Hess-Christy 1-34

1700 N Waterfront PKWY
BLDG 600 Wichita KS
67206-5514
ATTN: Bob Schreiber

34-13-32

Job Ticket: 042135

DST#: 4

Test Start: 2011.09.14 @ 14:20:00

GENERAL INFORMATION:

Formation: **Johnson**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:00:45

Time Test Ended: 22:14:30

Test Type: Conventional Bottom Hole

Tester: Jace McKinney

Unit No: 28

Interval: 4465.00 ft (KB) To 4520.00 ft (KB) (TVD)

Reference Elevations: 2929.00 ft (KB)

Total Depth: 4520.00 ft (KB) (TVD)

2924.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8675 Inside

Press @ Run Depth: 338.06 psig @ 4466.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.09.14

End Date:

2011.09.14

Last Calib.: 2011.09.14

Start Time: 14:20:01

End Time:

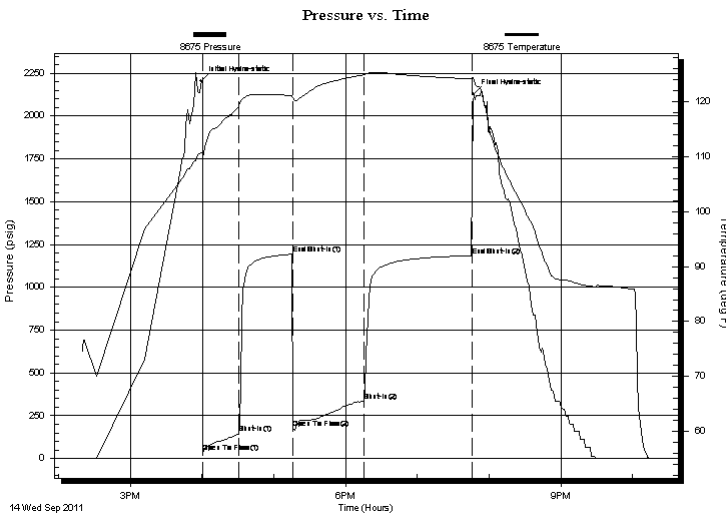
22:14:30

Time On Btm: 2011.09.14 @ 15:59:15

Time Off Btm: 2011.09.14 @ 19:47:15

TEST COMMENT: B.O.B. in 5 1/2 min.
Built to 7 1/2" return blow
B.O.B. in 9 1/2 min.
Built to 5 1/2" return blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2205.41	110.64	Initial Hydro-static
2	35.17	109.96	Open To Flow (1)
32	147.09	119.35	Shut-In(1)
77	1194.15	121.11	End Shut-In(1)
77	174.45	120.68	Open To Flow (2)
137	338.06	124.94	Shut-In(2)
227	1185.65	124.20	End Shut-In(2)
228	2129.63	123.78	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	1034 feet gas in pipe	0.00
250.00	mcw go 20%M 20%W 30%G 30%O	2.44
455.00	Oil 100%O	6.38

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Grand Mesa Operating Company

Hess-Christy 1-34

1700 N Waterfront PKWY
BLDG 600 Wichita KS
67206-5514
ATTN: Bob Schreiber

34-13-32

Job Ticket: 042135

DST#: 4

Test Start: 2011.09.14 @ 14:20:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

31 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 59.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.97 in³

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
0.00	1034 feet gas in pipe	0.000
250.00	mcw go 20%M 20%W 30%G 30%O	2.441
455.00	Oil 100%O	6.382

Total Length: 705.00 ft Total Volume: 8.823 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: API: 30 @ 50 F = 31

Pressure vs. Time

