



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1079107
OIL & GAS CONSERVATION DIVISION

Form ACO-1

August 2013

Form must be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

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

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

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

- Deepening Re-perf. Conv. to ENHR Conv. to SWD
- Plug Back Conv. to GSW Conv. to Producer
- 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

GPS Location: Lat: _____, Long: _____
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical 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

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

1079107

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

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

INSTRUCTIONS: Show important tops 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.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <i>(Attach Additional Sheets)</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input type="checkbox"/> No			
Electric Log Run	<input type="checkbox"/> Yes <input type="checkbox"/> No			
List All E. Logs Run:				

CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate				
<input type="checkbox"/> Protect Casing				
<input type="checkbox"/> Plug Back TD				
<input type="checkbox"/> Plug Off Zone				

Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*

Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

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

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> _____ <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Grand Mesa Operating Company
Well Name	GRIFFITH 1-23
Doc ID	1079107

All Electric Logs Run

CPDCN Microresistivity Log
AI Shallow Focused Elect. Log
Comp. Sonic w/Integrated Transit Time
Microresistivity Log

Form	ACO1 - Well Completion
Operator	Grand Mesa Operating Company
Well Name	GRIFFITH 1-23
Doc ID	1079107

Tops

Name	Top	Datum
Stone Corral	2353	+655
Bs/Stone Corral	2374	+634
Heebner	3925	-917
Lansing	3968	-960
Muncie Creek	4148	-1140
Stark	4237	-1229
Marmaton	4357	-1349
Excello	4504	-1496
Mississippian	4691	-1683
LTD	4790	

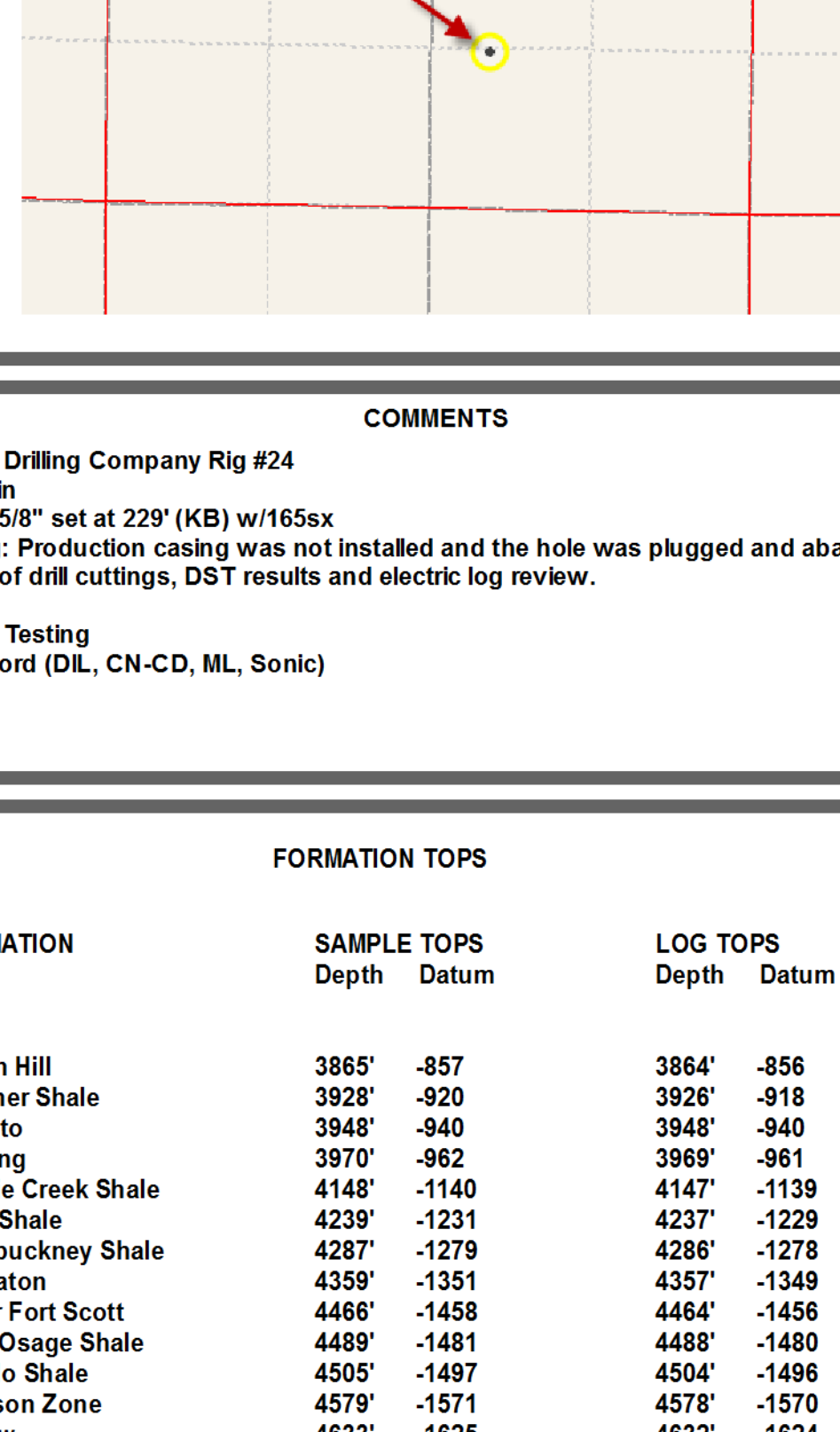
Scale 1:240 (5"=100') Imperial Measured Depth Log

Well Name: Griffith #1-23 Location: 1268' FSL, 2129' FEL, 23-16S-33W, Scott County, Kansas License Number: API: 15-171-20870 03/27/2012 Spud Date: 03/27/2012 Surface Coordinates: Lat: 38.6449792 Long: -100.9330389 Vertical hole Bottom Hole Coordinates: 3003' Ground Elevation (ft): 3600' To: RTD K.E. Elevation (ft): 3008' Logged Interval (ft): 3600' Total Depth (ft): 4790' Formation: Mississippian at RTD Type of Drilling Fluid: Chemical

Printed by MUD.LOG from WellSight Systems 1-800-447-1534 www.WellSight.com

GEOLOGIST

Name: Kent R. Matson Company: Matson Geological Services, LLC Address: 33300 W. 15th Street S Garden Plain, Kansas 67050 316-644-1975

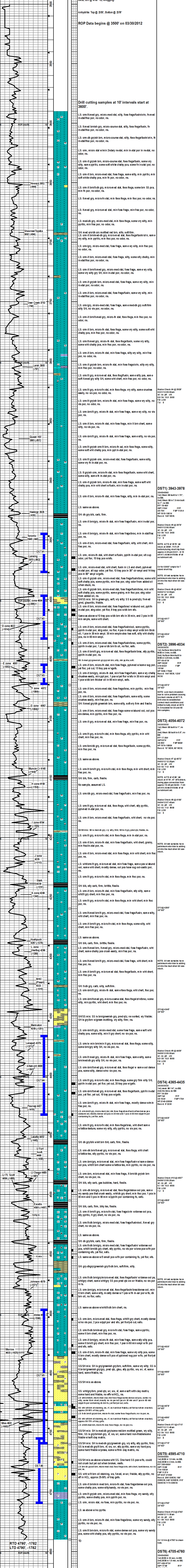


COMMENTS

Contractor: Murfin Drilling Company Rig #24 Pusher: Tony Martin Surface Casing: 8 5/8" set at 229' (KB) w/1655x Production Casing: Production casing was not installed and the hole was plugged and abandoned based on field observations of drill cuttings, DST results and electric log review. Mud by: MudCo DST's by: Triobite Testing Logs by: Weatherford (DIL, CN-CD, ML, Sonic) RTD= 4790' LTD= 4790'

FORMATION TOPS

Table with 4 columns: FORMATION, SAMPLE TOPS (Depth, Datum), LOG TOPS (Depth, Datum). Lists various geological formations and their corresponding depths and datums.



Remarks column containing detailed notes, mud logs, and DST results. Includes entries for DST1 (3943-3978), DST2 (3978-4004), DST3 (4054-4072), DST4 (4365-4435), DST5 (4595-4710), and DST6 (4705-4760).



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Grand Mesa Operating Co.

23-16s-33w Scott Co. KS

1700 N. Waterfront PKWY BLDG 600
Wichita KS. 67206

Griffith # 1-23

Job Ticket: 45150

DST#: 1

ATTN: Kent Matson

Test Start: 2012.04.01 @ 14:41:00

GENERAL INFORMATION:

Formation: **Toronto & Upper Lans**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:29:10

Time Test Ended: 21:36:54

Test Type: Conventional Bottom Hole (Initial)

Tester: Will MacLean

Unit No: 40

Interval: 3943.00 ft (KB) To 3978.00 ft (KB) (TVD)

Reference Elevations: 3008.00 ft (KB)

Total Depth: 3978.00 ft (KB) (TVD)

3003.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8652 Inside

Press @ Run Depth: 79.88 psig @ 3946.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.04.01

End Date:

2012.04.01

Last Calib.:

2012.04.01

Start Time:

14:41:00

End Time:

21:36:54

Time On Btm:

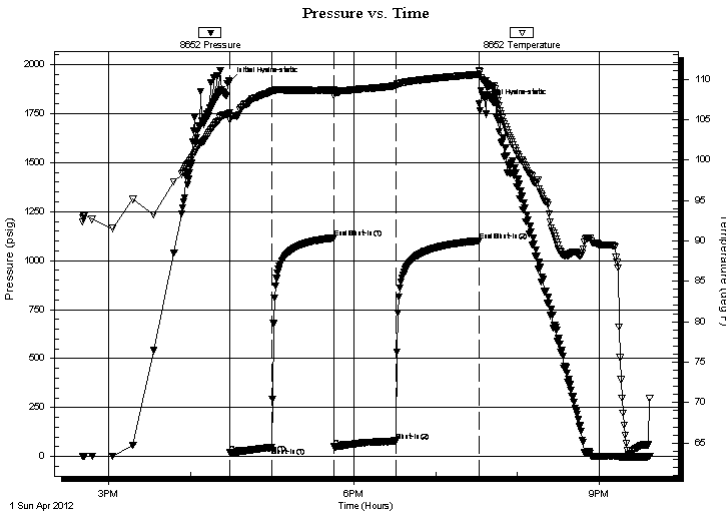
2012.04.01 @ 16:28:55

Time Off Btm:

2012.04.01 @ 19:31:54

TEST COMMENT: IF- Weak Surface Blow Built to 1 3/4"
IS- No Blow
FF- Weak Surface Blow in 7 1/2min Built to 1"
FS- No Blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1915.05	105.83	Initial Hydro-static
1	18.86	104.98	Open To Flow (1)
31	46.83	108.45	Shut-In(1)
77	1116.03	108.63	End Shut-In(1)
77	49.24	107.99	Open To Flow (2)
122	79.88	109.20	Shut-In(2)
183	1101.29	110.58	End Shut-In(2)
183	1801.86	111.08	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
68.00	WCM 10%w 90%w with Slight Skim of	0.33
60.00	WCM 23%w 77%w	0.36

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Grand Mesa Operating Co.

23-16s-33w Scott Co. KS

1700 N. Waterfront PKWY BLDG 600
Wichita KS. 67206

Griffith # 1-23

Job Ticket: 45150

DST#: 1

ATTN: Kent Matson

Test Start: 2012.04.01 @ 14:41:00

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:

6700 ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.20 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3400.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
68.00	WCM 10%w 90%m with Slight Skim of Oil	0.334
60.00	WCM 23%w 77%m	0.359

Total Length: 128.00 ft Total Volume: 0.693 bbl

Num Fluid Samples: 0

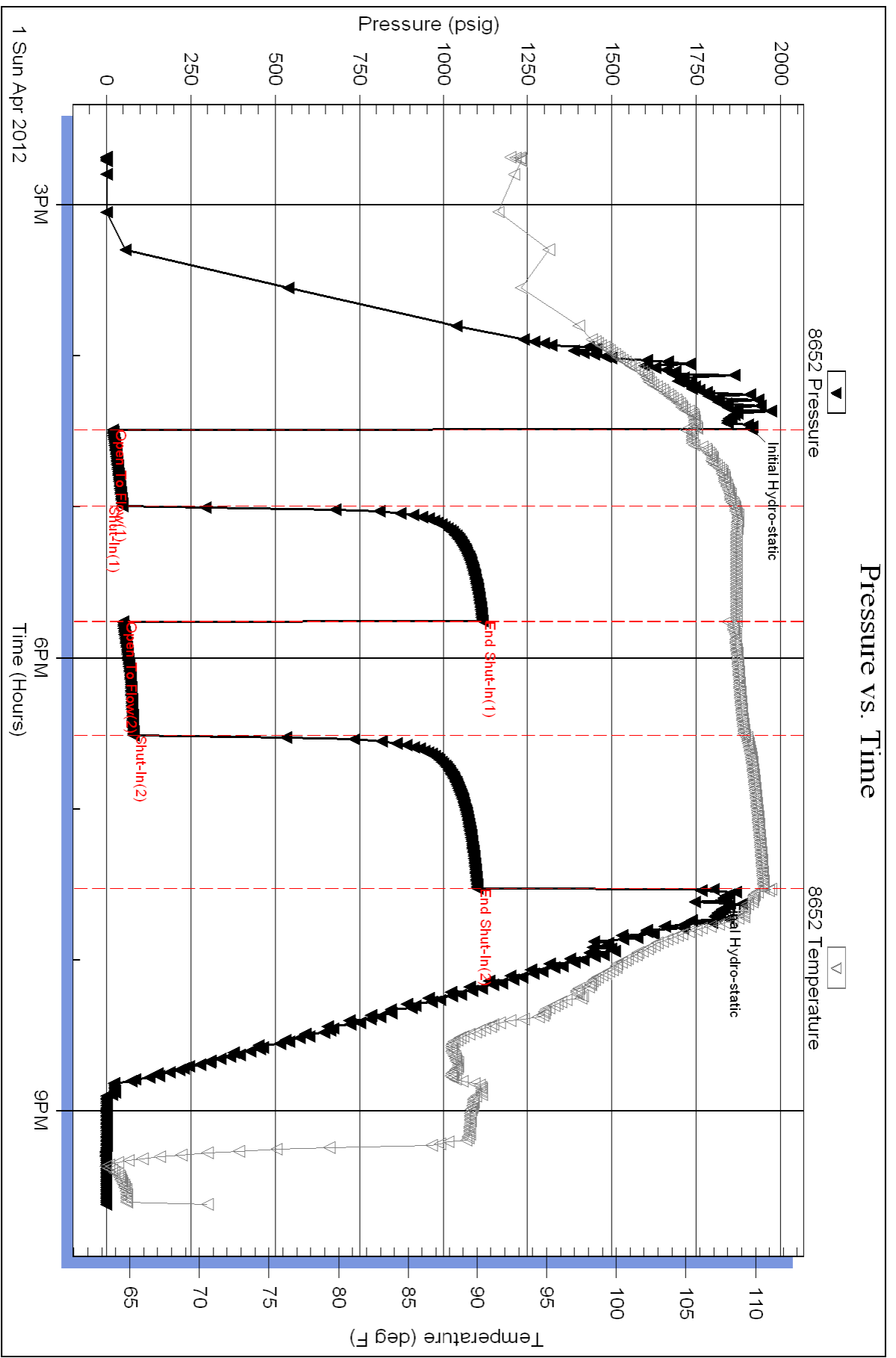
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW is .834 @ 74f = 6700





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Grand Mesa Operating Co.

23-16s-33w Scott Co. KS

1700 N. Waterfront PKWY BLDG 600
Wichita KS. 67206

Griffith # 1-23

Job Ticket: 45826

DST#: 2

ATTN: Kent Matson

Test Start: 2012.04.02 @ 09:59:00

GENERAL INFORMATION:

Formation: **Lansing C & D**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:11:55

Time Test Ended: 16:47:54

Test Type: Conventional Bottom Hole (Reset)

Tester: Will MacLean

Unit No: 40

Interval: 3996.00 ft (KB) To 4034.00 ft (KB) (TVD)

Reference Elevations: 3008.00 ft (KB)

Total Depth: 4043.00 ft (KB) (TVD)

3003.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8652

Inside

Press @ Run Depth: 643.17 psig @ 3999.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.04.02

End Date:

2012.04.02

Last Calib.:

2012.04.02

Start Time: 09:59:00

End Time:

16:47:54

Time On Btm:

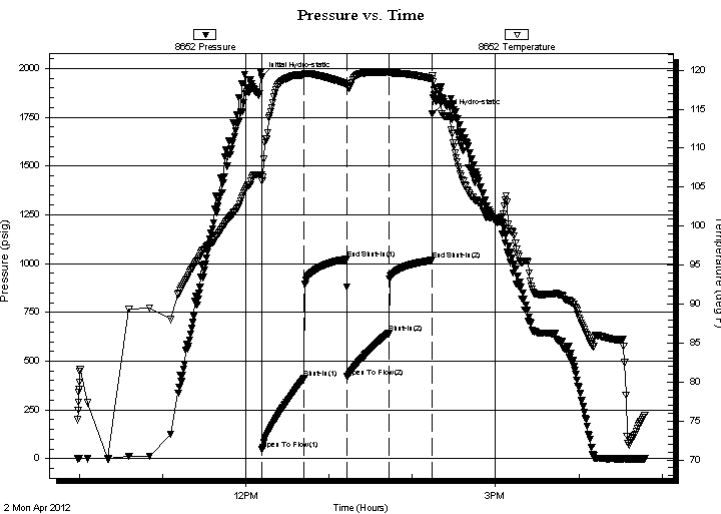
2012.04.02 @ 12:11:40

Time Off Btm:

2012.04.02 @ 14:14:40

TEST COMMENT: IF- Surface Blow Built to BOB in 3min
IS- No Blow
FF- Surface Blow Built to BOB in 3 1/4min
FS- No Blow

(Dropped the Bar)



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1956.69	106.65	Initial Hydro-static
1	49.57	105.78	Open To Flow (1)
31	411.11	119.45	Shut-In(1)
61	1022.87	118.24	End Shut-In(1)
62	419.82	118.00	Open To Flow (2)
92	643.17	119.66	Shut-In(2)
123	1016.97	118.88	End Shut-In(2)
123	1766.86	119.31	Final Hydro-static

Recovery

Gas Rates

Length (ft)	Description	Volume (bbl)
1236.00	MCW 6%w 94%w	16.24
124.00	WCM 35%w 65%m	1.74
20.00	WCM 18%w 82%m	0.28

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Grand Mesa Operating Co.

23-16s-33w Scott Co. KS

1700 N. Waterfront PKWY BLDG 600
Wichita KS. 67206

Griffith # 1-23

Job Ticket: 45826

DST#: 2

ATTN: Kent Matson

Test Start: 2012.04.02 @ 09:59:00

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:

15500 ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.20 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3400.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1236.00	MCW 6% _m 94% _w	16.236
124.00	WCM 35% _w 65% _m	1.739
20.00	WCM 18% _w 82% _m	0.281

Total Length: 1380.00 ft Total Volume: 18.256 bbl

Num Fluid Samples: 0

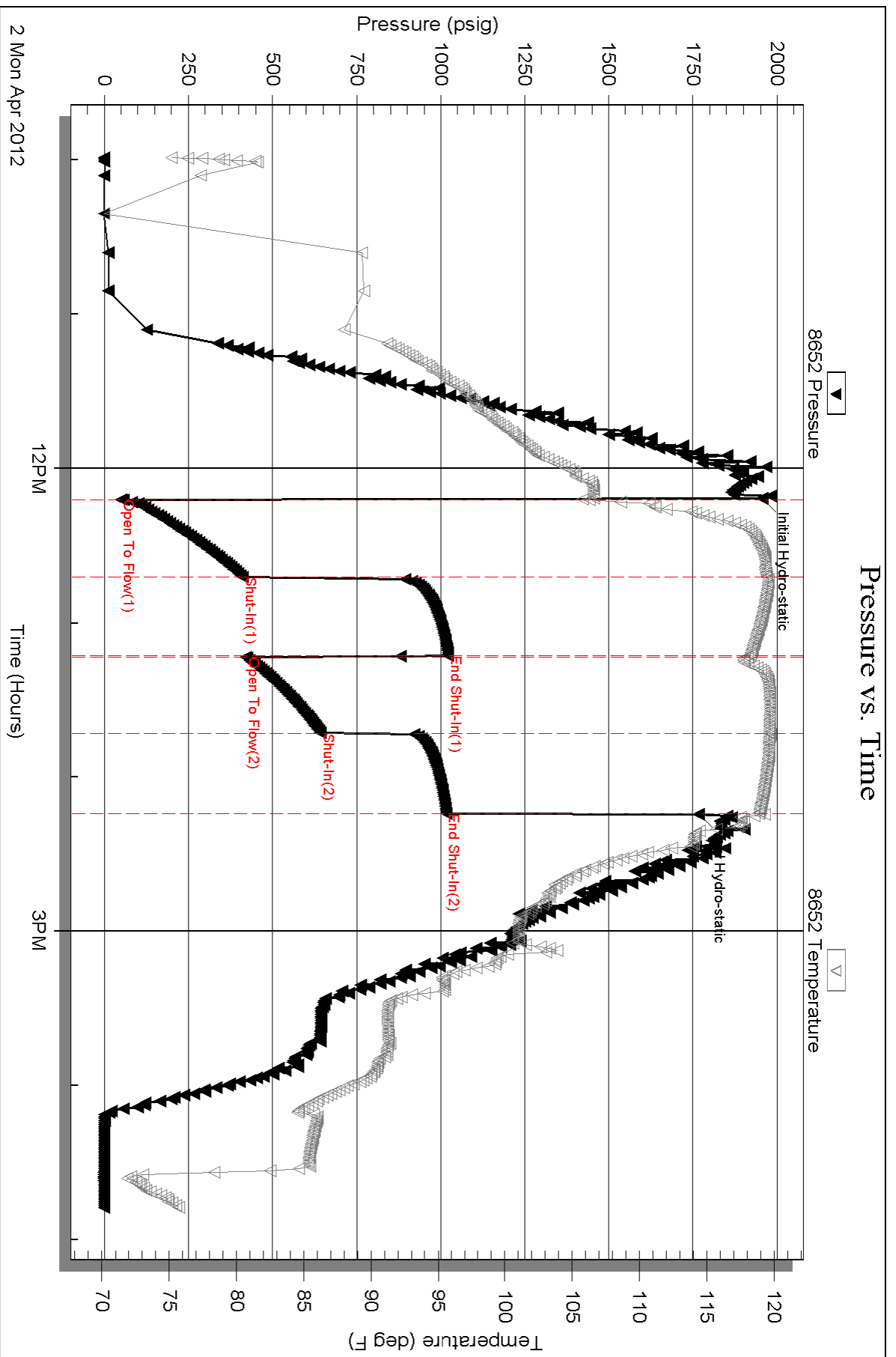
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW is .408 @ 72f = 15500





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Grand Mesa Operating Co.

23-16s-33w Scott Co. KS

1700 N. Waterfront PKWY BLDG 600
Wichita KS. 67206

Griffith # 1-23

Job Ticket: 45827

DST#: 3

ATTN: Kent Matson

Test Start: 2012.04.03 @ 07:40:00

GENERAL INFORMATION:

Formation: **Lansing " E "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:25:10

Time Test Ended: 13:48:09

Test Type: Conventional Bottom Hole (Reset)

Tester: Will MacLean

Unit No: 40

Interval: 4054.00 ft (KB) To 4072.00 ft (KB) (TVD)

Reference Elevations: 3008.00 ft (KB)

Total Depth: 4072.00 ft (KB) (TVD)

3003.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8652 Inside

Press @ Run Depth: 55.89 psig @ 4055.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.04.03

End Date:

2012.04.03

Last Calib.: 2012.04.03

Start Time: 07:40:00

End Time:

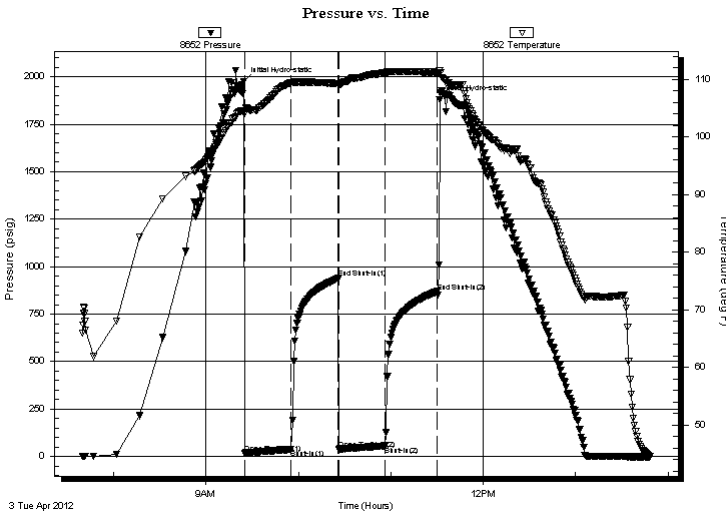
13:48:09

Time On Btm: 2012.04.03 @ 09:24:40

Time Off Btm: 2012.04.03 @ 11:31:40

TEST COMMENT: IF- Weak Surface Blow Built to 1"
IS- No Blow
FF- Weak Surface Blow Built to 1/2"
FS- No Blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1974.80	104.60	Initial Hydro-static
1	17.87	104.04	Open To Flow (1)
31	36.93	109.33	Shut-In(1)
62	937.95	109.27	End Shut-In(1)
62	38.92	109.05	Open To Flow (2)
92	55.89	111.13	Shut-In(2)
126	868.41	111.24	End Shut-In(2)
127	1880.05	111.57	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	MCW 28%w 72%w	0.30
10.00	WCM 25%w 75%w	0.05

* Recovery from multiple tests

Gas Rates

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



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TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Grand Mesa Operating Co.

23-16s-33w Scott Co. KS

1700 N. Waterfront PKWY BLDG 600
Wichita KS. 67206

Griffith # 1-23

Job Ticket: 45827

DST#: 3

ATTN: Kent Matson

Test Start: 2012.04.03 @ 07:40:00

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: 59.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.98 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
60.00	MCW 28%m 72%w	0.295
10.00	WCM 25%w 75%m	0.049

Total Length: 70.00 ft Total Volume: 0.344 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

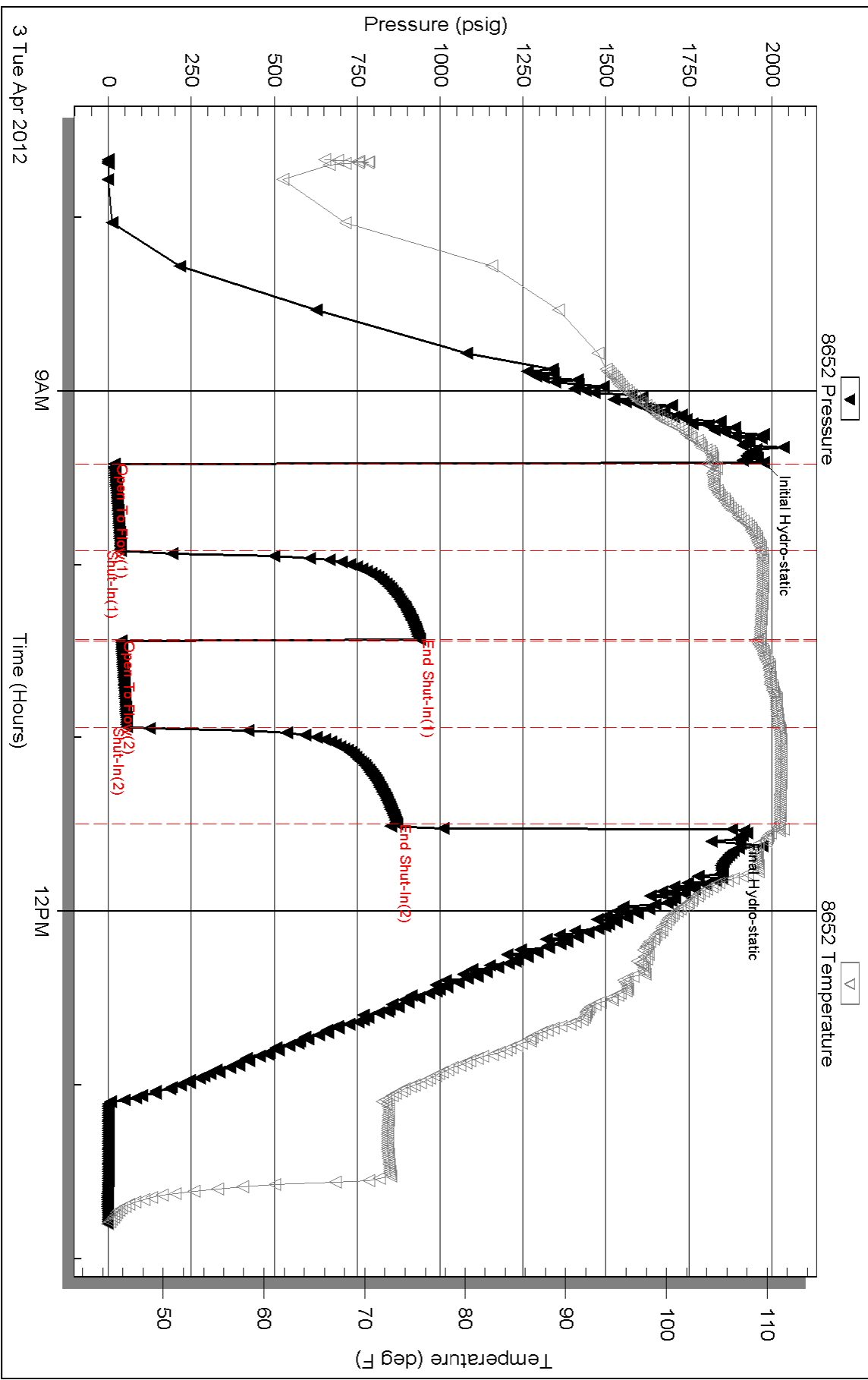
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW is .218 @ 72f = 31000

Pressure vs. Time





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Grand Mesa Operating Co.

23-16s-33w Scott Co. KS

1700 N. Waterfront PKWY BLDG 600
Wichita KS. 67206

Griffith # 1-23

Job Ticket: 45828

DST#: 4

ATTN: Kent Matson

Test Start: 2012.04.05 @ 16:14:00

GENERAL INFORMATION:

Formation: **Altamont / Pawnee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:09:40

Time Test Ended: 22:22:54

Test Type: Conventional Bottom Hole (Reset)

Tester: Will MacLean

Unit No: 40

Interval: 4365.00 ft (KB) To 4435.00 ft (KB) (TVD)

Reference Elevations: 3008.00 ft (KB)

Total Depth: 4435.00 ft (KB) (TVD)

3003.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8652

Inside

Press @ Run Depth: 103.44 psig @ 4366.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.04.05

End Date:

2012.04.05

Last Calib.:

2012.04.05

Start Time:

16:14:00

End Time:

22:22:54

Time On Btm:

2012.04.05 @ 18:09:25

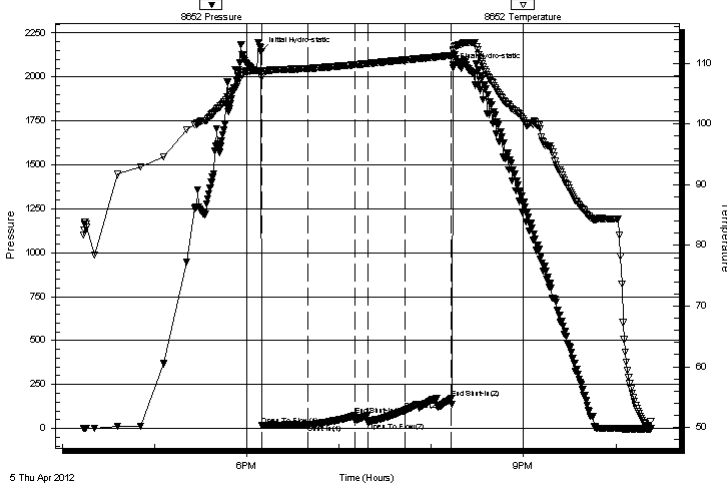
Time Off Btm:

2012.04.05 @ 20:14:10

TEST COMMENT: IF- Weak Surface Blow Built to 1/4"
IS- No Blow
FF- No Blow
FS- No Blow

On second open the elevators weren't slacked all the way off the tool either didnt make the full 5 rounds or back lashed i looked up to see what was happening and lost track of it for a second

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2145.22	108.38	Initial Hydro-static
1	18.51	107.73	Open To Flow (1)
31	25.55	109.15	Shut-In(1)
61	74.97	109.75	End Shut-In(1)
70	35.19	109.95	Open To Flow (2)
94	103.44	110.55	Shut-In(2)
124	170.07	111.29	End Shut-In(2)
125	2050.50	112.22	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	OCM 4%oil 96% m	0.02

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

Grand Mesa Operating Co.

23-16s-33w Scott Co. KS

1700 N. Waterfront PKWY BLDG 600
Wichita KS. 67206

Griffith # 1-23

Job Ticket: 45828

DST#: 4

ATTN: Kent Matson

Test Start: 2012.04.05 @ 16:14:00

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: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.39 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	OCM 4%oil 96%m	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

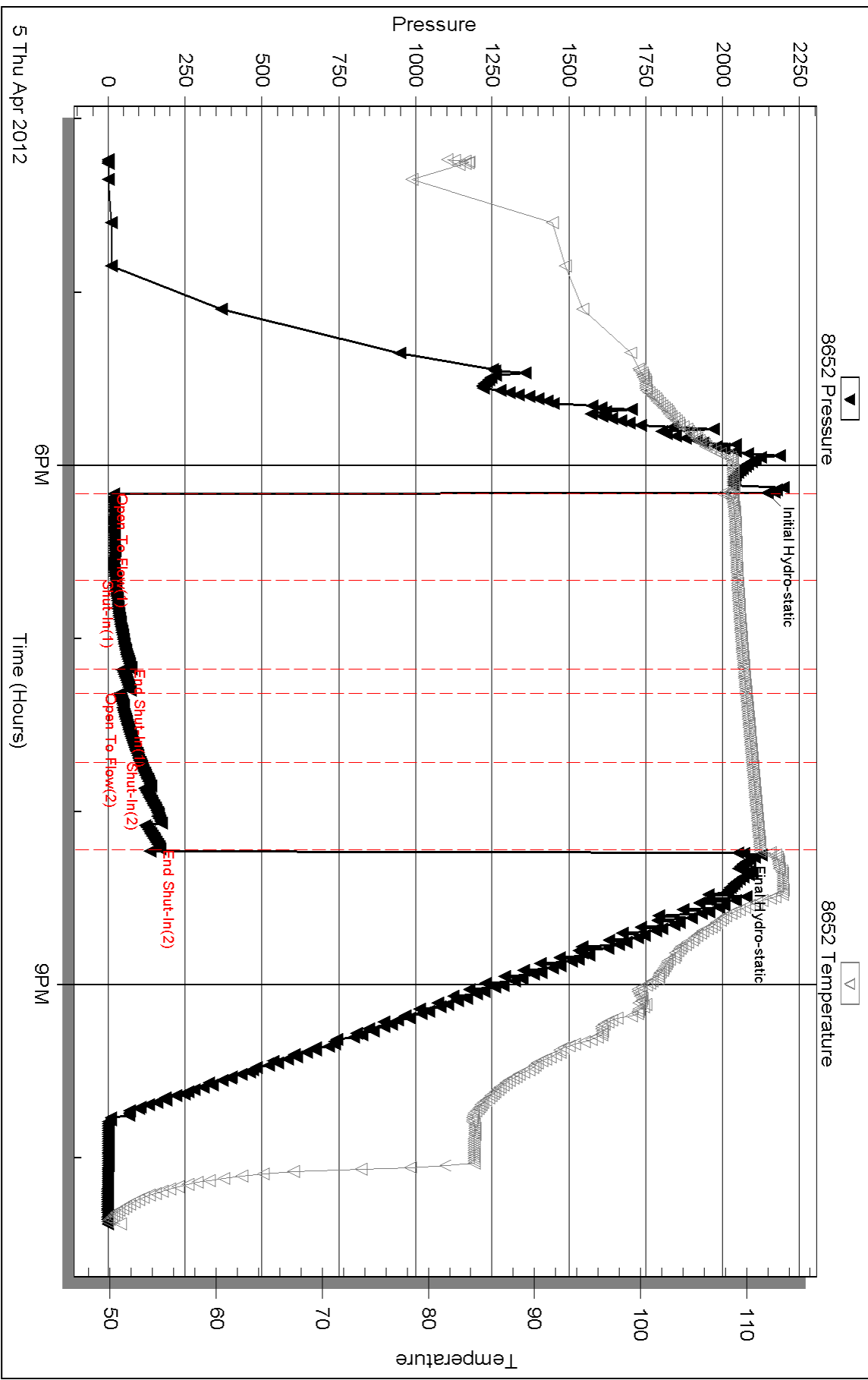
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Grand Mesa Operating Co.
 1700 N. Waterfront PKWY BLDG 600
 Wichita KS. 67206
 ATTN: Kent Matson

23-16s-33w Scott Co. KS
Griffith # 1-23
 Job Ticket: 45829 **DST#: 5**
 Test Start: 2012.04.07 @ 12:14:00

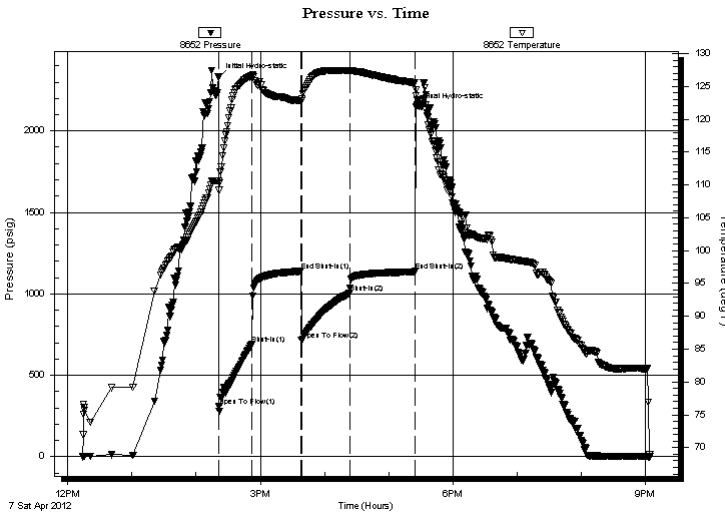
GENERAL INFORMATION:

Formation: **Atoka, Morrow, & Upp**
 Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 14:21:25 Tester: Will MacLean
 Time Test Ended: 21:04:10 Unit No: 40
 Interval: **4595.00 ft (KB) To 4710.00 ft (KB) (TVD)** Reference Elevations: 3008.00 ft (KB)
 Total Depth: 4710.00 ft (KB) (TVD) 3003.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 5.00 ft

Serial #: 8652 Inside
 Press @ Run Depth: 1003.47 psig @ 4596.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.04.07 End Date: 2012.04.07 Last Calib.: 2012.04.07
 Start Time: 12:14:00 End Time: 21:04:10 Time On Btm: 2012.04.07 @ 14:21:10
 Time Off Btm: 2012.04.07 @ 17:25:24

TEST COMMENT: IF- BOB in 1 1/2min
 IS- No Blow
 FF- BOB in 2min
 FS- No Blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2327.51	110.50	Initial Hydro-static
1	309.11	109.16	Open To Flow (1)
31	690.46	126.66	Shut-In(1)
77	1138.42	122.75	End Shut-In(1)
78	714.37	122.88	Open To Flow (2)
123	1003.47	127.35	Shut-In(2)
184	1137.50	125.53	End Shut-In(2)
185	2146.17	124.42	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1174.00	GMCW 2%g 4%m 94%w	15.37
310.00	OGMCW 3%oil 5%g 30%m 62%w	4.35
248.00	GOWCM 5%g 5%oil 40%w 50%m	3.48
186.00	OWGCM 2%oil 5%w 8%g 85%m	2.61
206.00	GWCM 3%g 4%w 93%m	2.89

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Grand Mesa Operating Co.
1700 N. Waterfront PKWY BLDG 600
Wichita KS. 67206
ATTN: Kent Matson

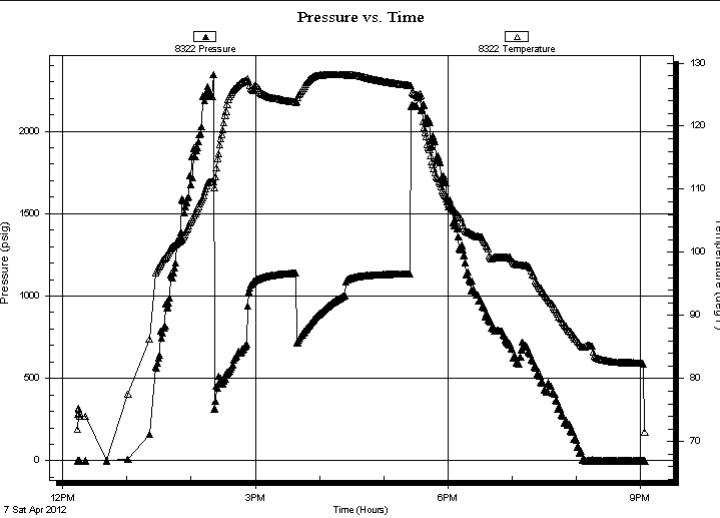
23-16s-33w Scott Co. KS
Griffith # 1-23
Job Ticket: 45829 **DST#: 5**
Test Start: 2012.04.07 @ 12:14:00

GENERAL INFORMATION:

Formation: **Atoka, Morrow, & Upp**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 14:21:25
Time Test Ended: 21:04:10
Interval: **4595.00 ft (KB) To 4710.00 ft (KB) (TVD)**
Total Depth: 4710.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good
Test Type: Conventional Bottom Hole (Reset)
Tester: Will MacLean
Unit No: 40
Reference Elevations: 3008.00 ft (KB)
3003.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8322 Outside
Press @ Run Depth: psig @ 4596.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2012.04.07 End Date: 2012.04.07 Last Calib.: 2012.04.07
Start Time: 12:14:00 End Time: 21:04:25 Time On Btm:
Time Off Btm:

TEST COMMENT: IF- BOB in 1 1/2min
IS- No Blow
FF- BOB in 2min
FS- No Blow



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

Recovery		
Length (ft)	Description	Volume (bbl)
1174.00	GMCW 2%g 4%m 94%w	15.37
310.00	OGMCW 3%oil 5%g 30%m 62%w	4.35
248.00	GOWCM 5%g 5%oil 40%w 50%m	3.48
186.00	OWGCM 2%oil 5%w 8%g 85%m	2.61
206.00	GWCM 3%g 4%w 93%m	2.89

* Recovery from multiple tests

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Grand Mesa Operating Co.

23-16s-33w Scott Co. KS

1700 N. Waterfront PKWY BLDG 600
Wichita KS. 67206

Griffith # 1-23

Job Ticket: 45829

DST#: 5

ATTN: Kent Matson

Test Start: 2012.04.07 @ 12:14:00

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:

48000 ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.96 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
1174.00	GMCW 2%g 4%m 94%w	15.366
310.00	OGMCW 3%oil 5%g 30%m 62%w	4.348
248.00	GOWCM 5%g 5%oil 40%w 50%m	3.479
186.00	OWGCM 2%oil 5%w 8%g 85%m	2.609
206.00	GWCM 3%g 4%w 93%m	2.890

Total Length: 2124.00 ft Total Volume: 28.692 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

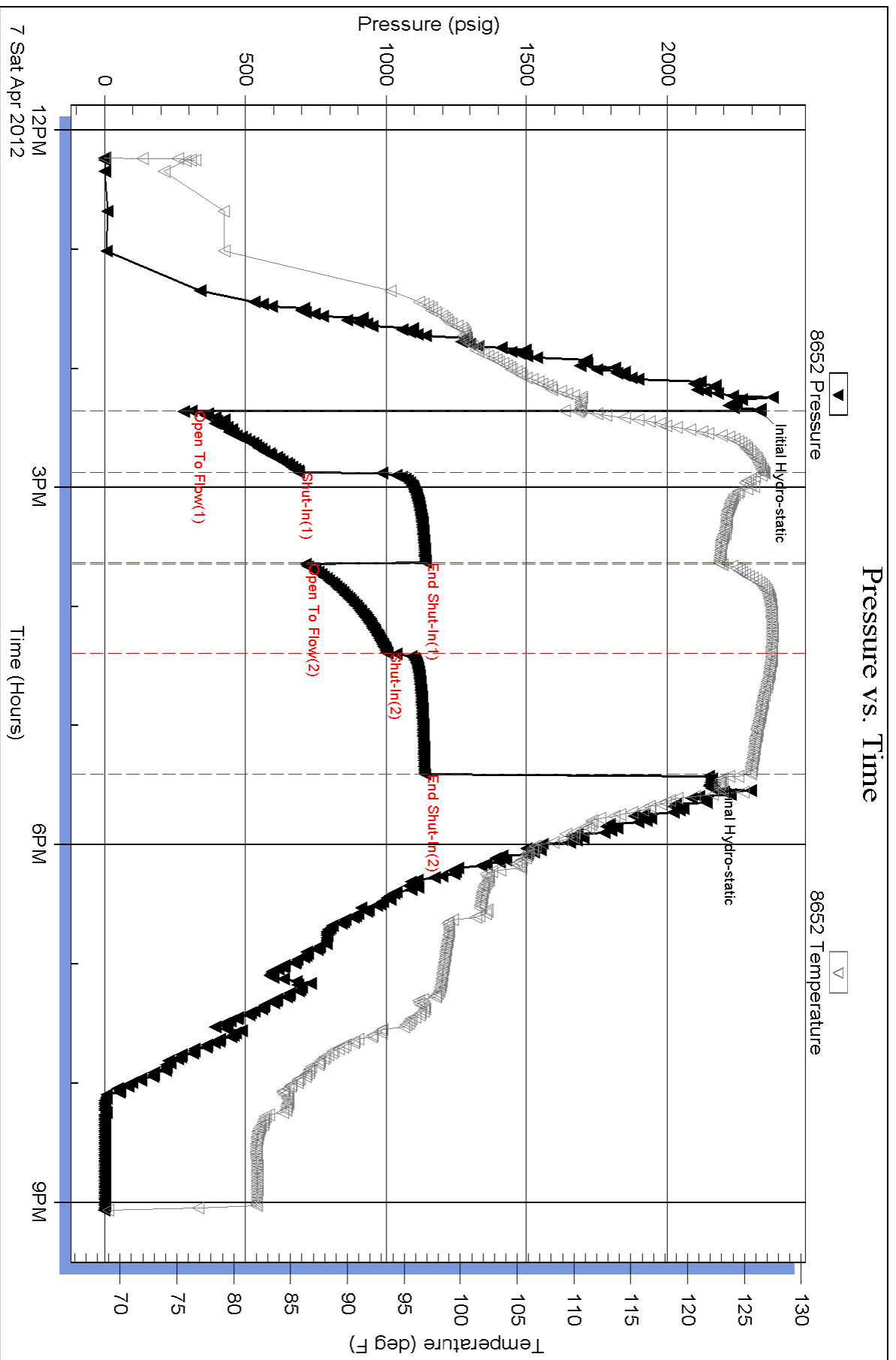
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW is .189 @ 56f = 48000

Pressure vs. Time

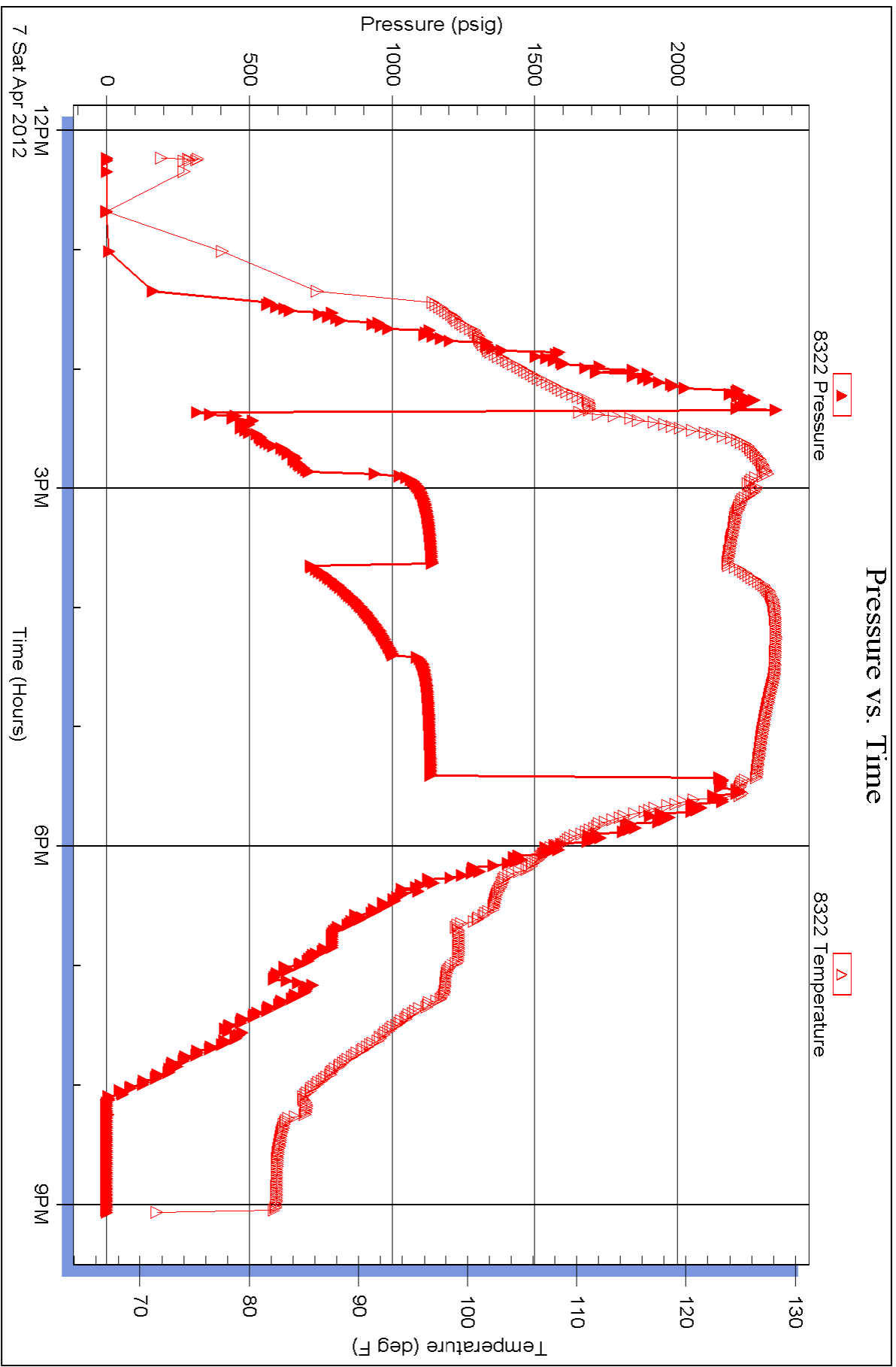


Serial #: 8322

Outside Grand Mesa Operating Co.

Griffith # 1-23

DST Test Number: 5





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Grand Mesa Operating Co.

23-16s-33w Scott Co. KS

1700 N. Waterfront PKWY BLDG 600
Wichita KS. 67206

Griffith # 1-23

Job Ticket: 45830

DST#: 6

ATTN: Kent Matson

Test Start: 2012.04.08 @ 10:16:00

GENERAL INFORMATION:

Formation: **Mississippian**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:24:40

Time Test Ended: 18:20:09

Test Type: Conventional Bottom Hole (Reset)

Tester: Will MacLean

Unit No: 40

Interval: 4705.00 ft (KB) To 4760.00 ft (KB) (TVD)

Reference Elevations: 3008.00 ft (KB)

Total Depth: 4760.00 ft (KB) (TVD)

3003.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8652

Inside

Press @ Run Depth: 1161.20 psig @ 4706.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.04.08

End Date:

2012.04.08

Last Calib.:

2012.04.08

Start Time: 10:16:00

End Time:

18:20:09

Time On Btm:

2012.04.08 @ 12:24:10

Time Off Btm:

2012.04.08 @ 15:32:39

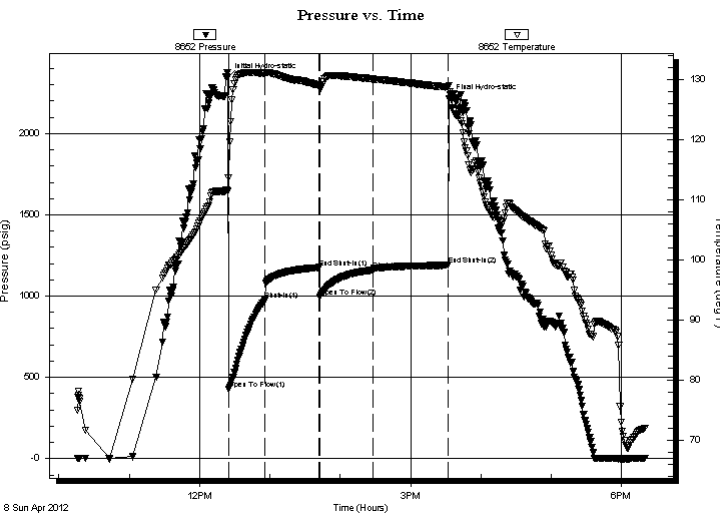
TEST COMMENT: IF- BOB in 30seconds

Dropped the Bar

IS- No Blow

FF- BOB in 1 1/2min

FS- No Blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2342.86	111.34	Initial Hydro-static
1	426.76	113.57	Open To Flow (1)
32	973.37	130.93	Shut-In(1)
78	1175.46	128.89	End Shut-In(1)
79	993.69	128.69	Open To Flow (2)
124	1161.20	130.00	Shut-In(2)
188	1190.35	128.65	End Shut-In(2)
189	2215.27	128.95	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2044.00	MCW 3%w 97%w	27.57
62.00	OGMCW 3%oil 7%g 42%m 48%w	0.87
124.00	OGWCM 3%oil 7%g 20%w 70%m	1.74
186.00	GWCM 3%g 7%w 90%m with Skim	2.61
72.00	OWCM 2%oil 3%w 95%m	1.01

* Recovery from multiple tests

Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Grand Mesa Operating Co.

23-16s-33w Scott Co. KS

1700 N. Waterfront PKWY BLDG 600
Wichita KS. 67206

Griffith # 1-23

Job Ticket: 45830

DST#: 6

ATTN: Kent Matson

Test Start: 2012.04.08 @ 10:16:00

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:

50000 ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.97 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
2044.00	MCW 3%m 97%w	27.570
62.00	OGMCW 3%oil 7%g 42%m 48%w	0.870
124.00	OGWCM 3%oil 7%g 20%w 70%m	1.739
186.00	GWCM 3%g 7%w 90%m with Skim of Oil	2.609
72.00	OWCM 2%oil 3%w 95%m	1.010

Total Length: 2488.00 ft Total Volume: 33.798 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

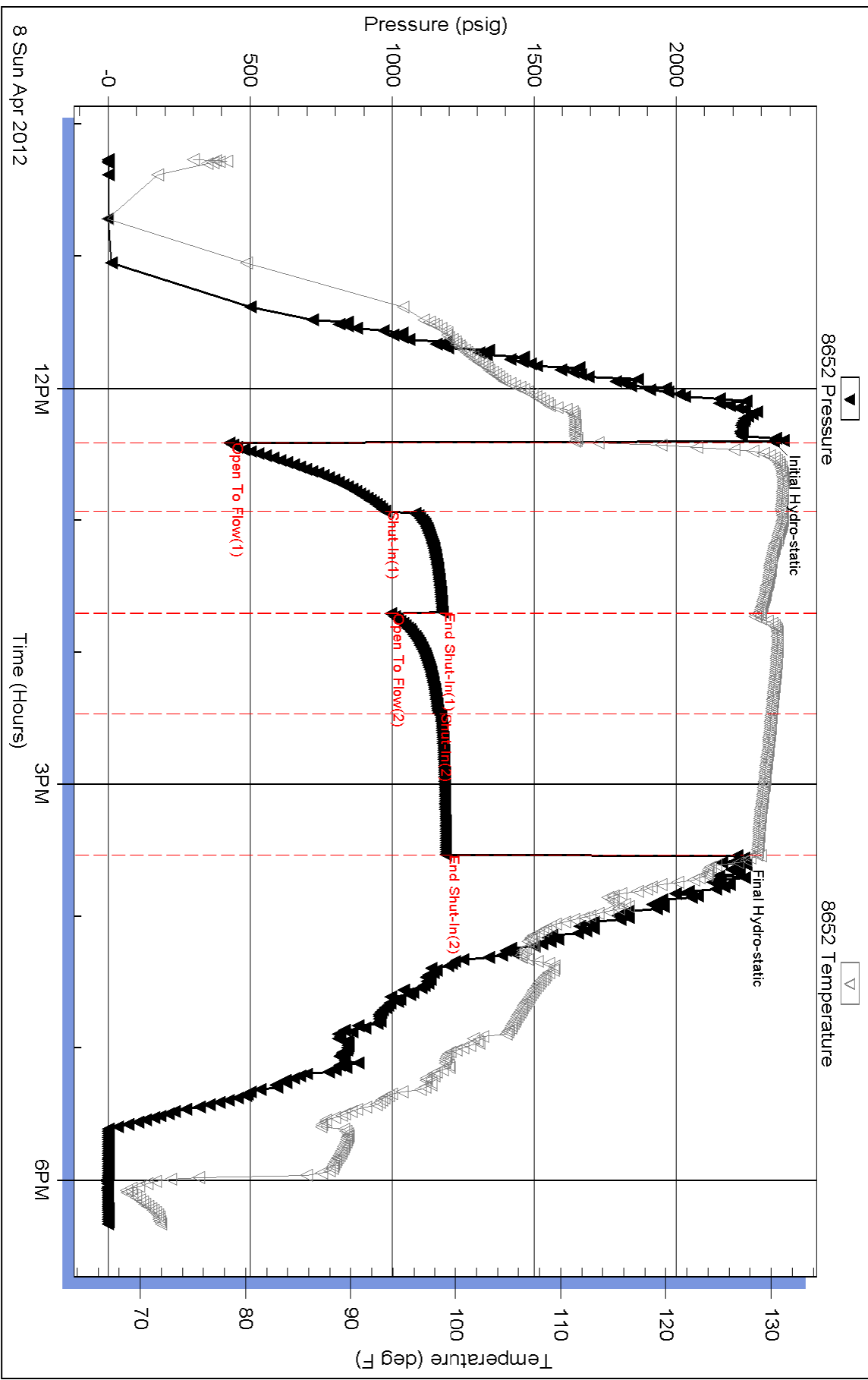
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW is .131 @ 78f = 50000

Pressure vs. Time

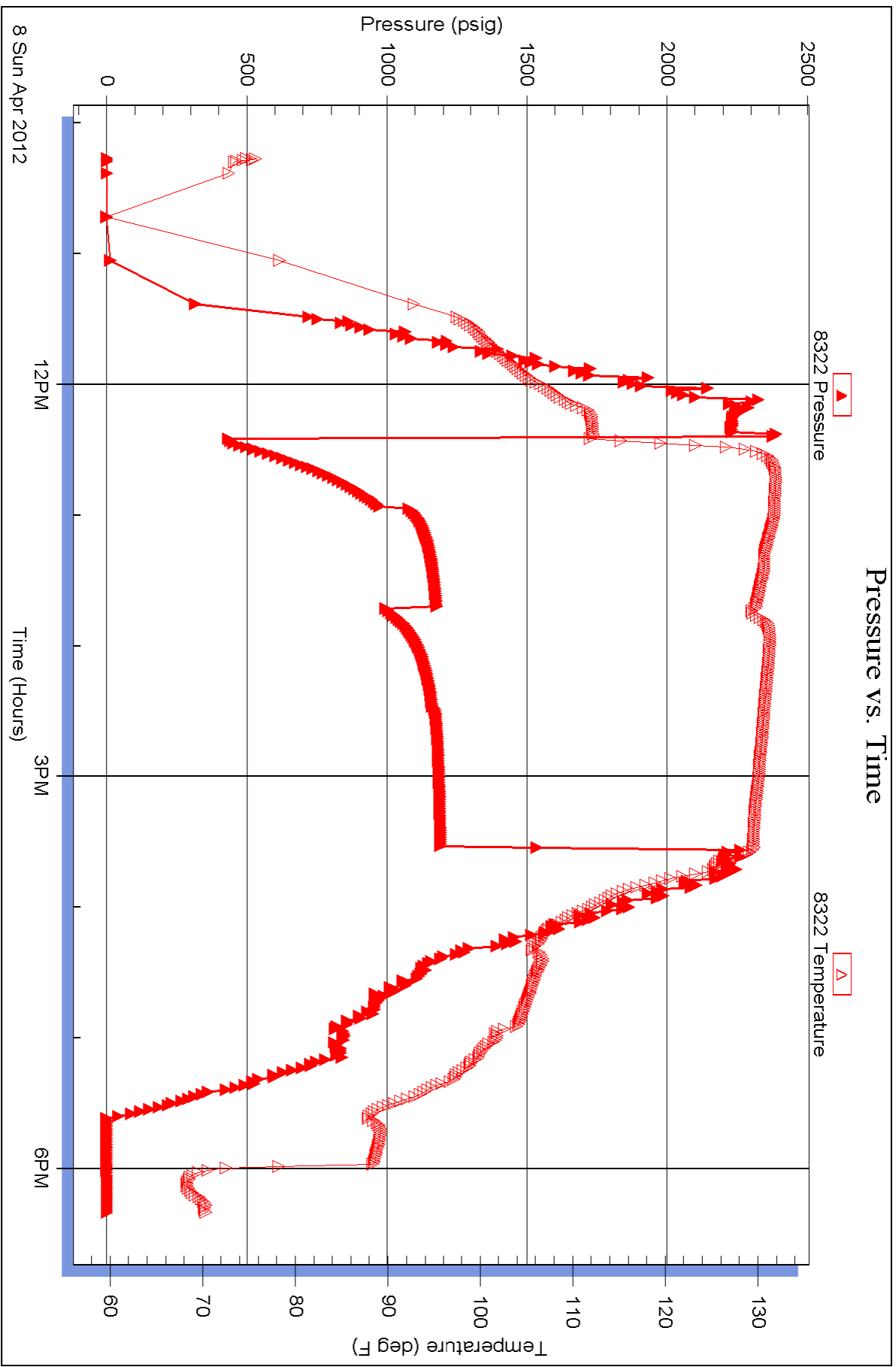


Serial #: 8322

Outside Grand Mesa Operating Co.

Griffith # 1-23

DST Test Number: 6



ALLIED CEMENTING CO., LLC. 035366

Federal Tax I.D.# 20-5975804

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

SERVICE POINT: Oakley Ks

DATE <u>3/27/12</u>	SEC <u>23</u>	TWP. <u>16</u>	RANGE <u>33</u>	CALLED OUT	ON LOCATION	JOB START <u>7:00p</u>	JOB FINISH <u>7:30p</u>
LEASE <u>Co-FF: H</u>	WELL# <u>1-23</u>	LOCATION <u>Oakley St to N. Lake Entrance</u>	COUNTY <u>Scott</u>	STATE <u>KS</u>			
OLD OR <u>NEW</u> (Circle one) <u>was to fence road W to Jupiter Rd into</u>							

CONTRACTOR Mua Fin 24 OWNER Same

TYPE OF JOB Fan Face

HOLE SIZE 12 1/4 T.D. 229' CEMENT AMOUNT ORDERED 165 cu - 270cc 273 gal

CASING SIZE 8 7/8 DEPTH 229'

TUBING SIZE DEPTH

DRILL PIPE 4 1/2 DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG. 15'

PERFS.

DISPLACEMENT 13,631 gal

EQUIPMENT

PUMP TRUCK CEMENTER Alan

422 HELPER Wayne

BULK TRUCK DRIVER Alan

DRIVER

HANDLING 174 Sls

MILEAGE 14 Sls/mile

TOTAL 4193.88

REMARKS: Run Log, Circulate, Mix Cement, Displace Cement.

Cement Bld Circulate

Thank You
Alan, Wayne, Alan

CHARGE TO Grand Mesa

STREET

CITY STATE ZIP

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

PLUG & FLOAT EQUIPMENT

TOTAL

ALLIED CEMENTING CO., LLC. 035947

Federal Tax I.D.# 20-5976804

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

SERVICE POINT:

OKLEY

DATE	SEC	TWP	RANGE	CALLED OUT	ON LOCATION	JOB START	JOB FINISH
<u>4-9-2012</u>	<u>25</u>	<u>16S</u>	<u>33W</u>		<u>5:00 PM</u>	<u>8:00 PM</u>	<u>9:00 PM</u>
LEASE			WELLS	LOCATION	COUNTY	STATE	
<u>CARFAYA</u>			<u>1-23</u>	<u>PEWEE 7E-5/5- E 2 1/2</u>	<u>SCOTT</u>	<u>KS</u>	
OLD OR NEW (Circle one)							

CONTRACTOR MURPHY OLLY BEN # 24
 TYPE OF JOB PTA
 HOLE SIZE 7 7/8 T.D. 4790'
 CASINO SIZE _____ DEPTH _____
 TUBING SIZE _____ DEPTH _____
 DRILL PIPE 4 1/2 DEPTH 2400'
 TOOL _____ DEPTH _____
 PRES. MAX _____ MINIMUM _____
 MEAS. LINE _____ SHOES JOINT _____
 CEMENT LEFT IN CSO. _____
 PERFS. _____
 DISPLACEMENT _____

OWNER SAME

CEMENT	AMOUNT ORDERED
<u>290 SKS 60/40 PERZ 47091 K #16-521</u>	
COMMON <u>174 SKS @ 16.25</u>	<u>2827.50</u>
POZMIX <u>116 SKS @ 8.00</u>	<u>928.00</u>
DBL <u>10 SKS @ 21.25</u>	<u>212.50</u>
CHLORIDE _____	_____
ASC _____	_____
<u>FLO-SEAL 73 #</u>	<u>2.38 @ 197.60</u>
HANDLING <u>306.6 CU FT @ 2.25</u>	<u>693.90</u>
MILBAG <u>12.9 700 X 37 X 2.35</u>	<u>112.50</u>
TOTAL <u>5785.00</u>	

REMARKS:

50 SKS AT 2400'
90 SKS AT 1700'
10 SKS AT 800'
50 SKS AT 270'
20 SKS AT 60'
20 SKS MENDING HOLE
30 SKS RAT HOLE

Thank You

CHARGE TO: GRAND MESA
 STREET _____
 CITY _____ STATE _____ ZIP _____

SERVICE

DEPTH OF JOB <u>2400'</u>	
PUMP TRUCK CHARGE _____	<u>1200.00</u>
EXTRA FOOTAGE _____	_____
MILBAG <u>37 mt @ 7.5</u>	<u>259.50</u>
MANIFOLD _____	_____
<u>LUM 87 mt @ 1.8</u>	<u>148.80</u>
TOTAL <u>1657.30</u>	

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

SALTS TAX (if any) _____

TOTAL CHARGES _____

DISCOUNT _____ IF PAID IN 30 DAYS

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

April 25, 2012

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

Re: ACO1
API 15-171-20870-00-00
GRIFFITH 1-23
SE/4 Sec.23-16S-33W
Scott 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