



KANSAS CORPORATION COMMISSION 1055807  
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 # \_\_\_\_\_

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

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: \_\_\_\_\_



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
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> 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 Bbbs.	Gas Mcf	Water Bbbs.	Gas-Oil Ratio	Gravity
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<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <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>	<b>PRODUCTION INTERVAL:</b> _____ _____
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Form	ACO1 - Well Completion
Operator	Grand Mesa Operating Company
Well Name	Frances 1-7
Doc ID	1055807

Tops

Name	Top	Datum
Stone Corral	1608	+787
Heebner	3730	-1335
Lansing	3771	-1376
Muncie Creek	3947	-1552
Hushpuckney	4084	-1689
Marmaton	4162	-1767
Pawnee	4216	-1821
Little Osage	4257	-1862
Morrow	4380	-1985
Mississippian	4407	-2012
LTD	4568	



## DRILL STEM TEST REPORT

Prepared For: **GRAND MESA OPERATING**

1700 N WATERFRONT PKWY BLDG 600  
WICHITA KS 67206

ATTN: BOB PETERSON

**7-21S-25W HODGEMAN**

**FRANCES 1-7**

Start Date: 2011.05.06 @ 05:00:00

End Date: 2011.05.06 @ 12:18:00

Job Ticket #: 1022                      DST #: 1

Eagle Testers LLC.

P.O.Box 1011, Great Bend, KS 67530

620-617-7548

Printed: 2011.05.06 @ 05:52:30

GRAND MESA OPERATING  
FRANCES 1-7  
7-21S-25W HODGEMAN  
DST # 1  
LKC -I-  
2011.05.06



# DRILL STEM TEST REPORT

GRAND MESA OPERATING

FRANCES 1-7

1700 N WATERFRONT PKWY BLDG 600  
WICHITA KS 67206

7-21S-25W HODGEMAN

Job Ticket: 1022

DST#: 1

ATTN: BOB PETERSON

Test Start: 2011.05.06 @ 05:00:00

## GENERAL INFORMATION:

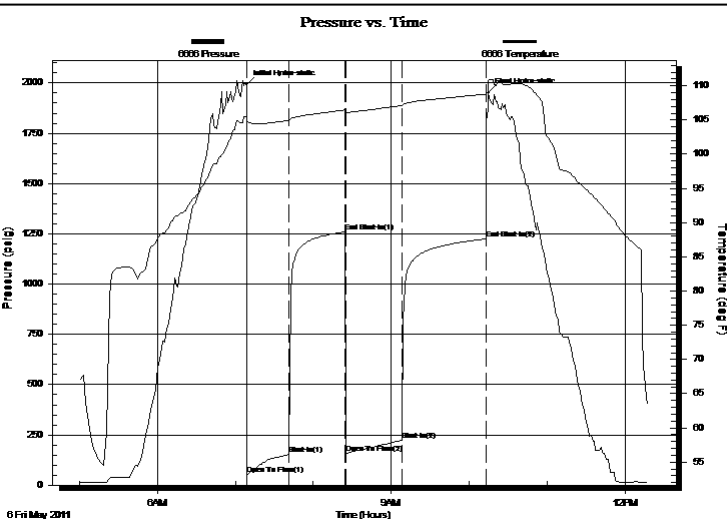
Formation: **LKC -I-**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Initial)  
 Time Tool Opened: 07:09:00  
 Tester: DAVID NICHOLS  
 Time Test Ended: 12:18:00  
 Unit No: 15 184 MRT GREAT BE  
 Interval: **3974.00 ft (KB) To 4012.00 ft (KB) (TVD)**  
 Reference Elevations: 2395.00 ft (KB)  
 Total Depth: 4012.00 ft (KB) (TVD)  
 2390.00 ft (CF)  
 Hole Diameter: 7.88 inches  
 Hole Condition: Fair  
 KB to GR/CF: 5.00 ft

## Serial #: 6666

Inside

Press @ Run Depth: 223.13 psig @ 4008.00 ft (KB) Capacity: 5000.00 psig  
 Start Date: 2011.05.06 End Date: 2011.05.06 Last Calib.: 2011.05.06  
 Start Time: 05:00:00 End Time: 12:18:00 Time On Btm: 2011.05.06 @ 07:08:30  
 Time Off Btm: 2011.05.06 @ 10:15:00

TEST COMMENT: 30-INITIAL OPENING WEAK BLOW BUILT TO 7 INCHES INTO WATER  
 45-INITIAL SHUT IN NO BLOW BACK  
 45-FINAL OPENING WEAK BUILDING BLOW BOTTOM BUCKET IN 40 MINS  
 60-FINAL SHUT IN NO BLOW BACK



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1992.85	105.35	Initial Hydro-static
1	51.35	104.92	Open To Flow (1)
34	152.99	104.95	Shut-In(1)
76	1258.67	106.46	End Shut-In(1)
77	157.07	106.15	Open To Flow (2)
120	223.13	107.11	Shut-In(2)
185	1224.62	108.76	End Shut-In(2)
187	1951.08	110.63	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
80.00	WATERY MUD SHOW OF OIL	0.39
0.00	2%OIL 38%WATER 60%MUD	0.00
240.00	WATER WITH A SKIM OF OIL	2.54
0.00	99%WATER 1% OIL	0.00
60.00	MUDDY WATER 40%MUD60%WATER	0.88

## Gas Rates

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



# DRILL STEM TEST REPORT

GRAND MESA OPERATING

FRANCES 1-7

1700 N WATERFRONT PKWY BLDG 600  
WICHITA KS 67206

7-21S-25W HODGEMAN

Job Ticket: 1022

DST#: 1

ATTN: BOB PETERSON

Test Start: 2011.05.06 @ 05:00:00

## GENERAL INFORMATION:

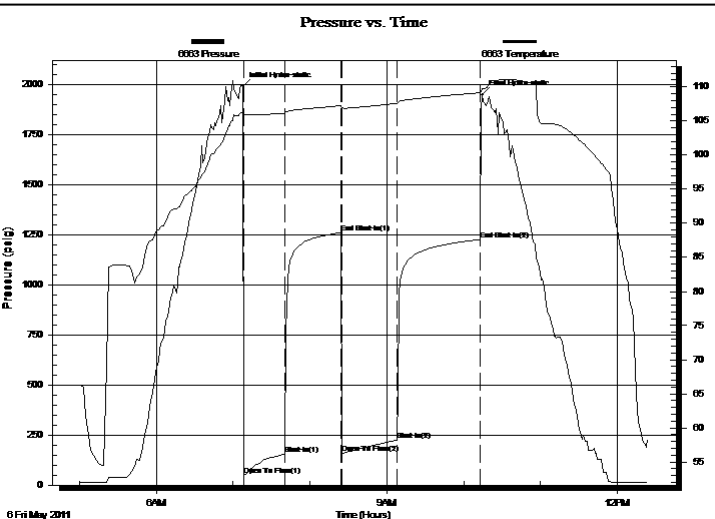
Formation: **LKC -I-**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 07:09:00  
 Time Test Ended: 12:18:00  
 Interval: **3974.00 ft (KB) To 4012.00 ft (KB) (TVD)**  
 Total Depth: 4012.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: DAVID NICHOLS  
 Unit No: 15 184 MRT GREAT BE  
 Reference Elevations: 2395.00 ft (KB)  
 2390.00 ft (CF)  
 KB to GR/CF: 5.00 ft

## Serial #: 6663

Outside

Press @ Run Depth: 1226.27 psig @ 4009.00 ft (KB) Capacity: 5000.00 psig  
 Start Date: 2011.05.06 End Date: 2011.05.06 Last Calib.: 2011.05.06  
 Start Time: 05:00:00 End Time: 12:23:30 Time On Btm: 2011.05.06 @ 07:07:30  
 Time Off Btm: 2011.05.06 @ 10:14:30

TEST COMMENT: 30-INITIAL OPENING WEAK BLOW BUILT TO 7 INCHES INTO WATER  
 45-INITIAL SHUT IN NO BLOW BACK  
 45-FINAL OPENING WEAK BUILDING BLOW BOTTOM BUCKET IN 40 MINS  
 60-FINAL SHUT IN NO BLOW BACK



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1992.29	106.41	Initial Hydro-static
1	50.98	105.97	Open To Flow (1)
33	155.39	106.11	Shut-In(1)
77	1260.38	107.24	End Shut-In(1)
78	158.25	106.91	Open To Flow (2)
120	225.45	107.57	Shut-In(2)
185	1226.27	109.15	End Shut-In(2)
187	1948.71	109.70	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
80.00	WATERY MUD SHOW OF OIL	0.39
0.00	2%OIL 38%WATER 60%MUD	0.00
240.00	WATER WITH A SKIM OF OIL	2.54
0.00	99%WATER 1% OIL	0.00
60.00	MUDDY WATER 40%MUD60%WATER	0.88

## Gas Rates

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



# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

GRAND MESA OPERATING

**FRANCES 1-7**

1700 N WATERFRONT PKWY BLDG 600  
WICHITA KS 67206

**7-21S-25W HODGEMAN**

ATTN: BOB PETERSON

Job Ticket: 1022

**DST#: 1**

Test Start: 2011.05.06 @ 05:00:00

## Tool Information

Drill Pipe:	Length: 3805.00 ft	Diameter: 3.88 inches	Volume: 55.65 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 180.00 ft	Diameter: 2.25 inches	Volume: 0.89 bbl	Weight to Pull Loose: 58000.00 lb
			<u>Total Volume: 56.54 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	40.00 ft			String Weight: Initial 54000.00 lb
Depth to Top Packer:	3974.00 ft			Final 54000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	38.00 ft			
Tool Length:	67.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Shut-in tool	5.00			3950.00	
Hydraulic tool	5.00			3955.00	
Change over sub	1.00			3956.00	
Jars	6.00			3962.00	
Safety Joint	2.00			3964.00	
Packer	5.00			3969.00	29.00 Bottom Of Top Packer
Packer	5.00			3974.00	
Anchor	33.00			4007.00	
Recorder	1.00	6666	Inside	4008.00	
Recorder	1.00	6663	Outside	4009.00	
Bullnose	3.00			4012.00	38.00 Bottom Packers & Anchor

**Total Tool Length: 67.00**



# DRILL STEM TEST REPORT

FLUID SUMMARY

GRAND MESA OPERATING

FRANCES 1-7

1700 N WATERFRONT PKWY BLDG 600  
WICHITA KS 67206

7-21S-25W HODGEMAN

Job Ticket: 1022

DST#: 1

ATTN: BOB PETERSON

Test Start: 2011.05.06 @ 05:00:00

## 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:

ppm

Viscosity: 68.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.40 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4500.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
80.00	WATERY MUD SHOW OF OIL	0.393
0.00	2%OIL 38%WATER 60%MUD	0.000
240.00	WATER WITH A SKIM OF OIL	2.539
0.00	99%WATER 1% OIL	0.000
60.00	MUDDY WATER 40%MUD60%WATER	0.877

Total Length: 380.00 ft      Total Volume: 3.809 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

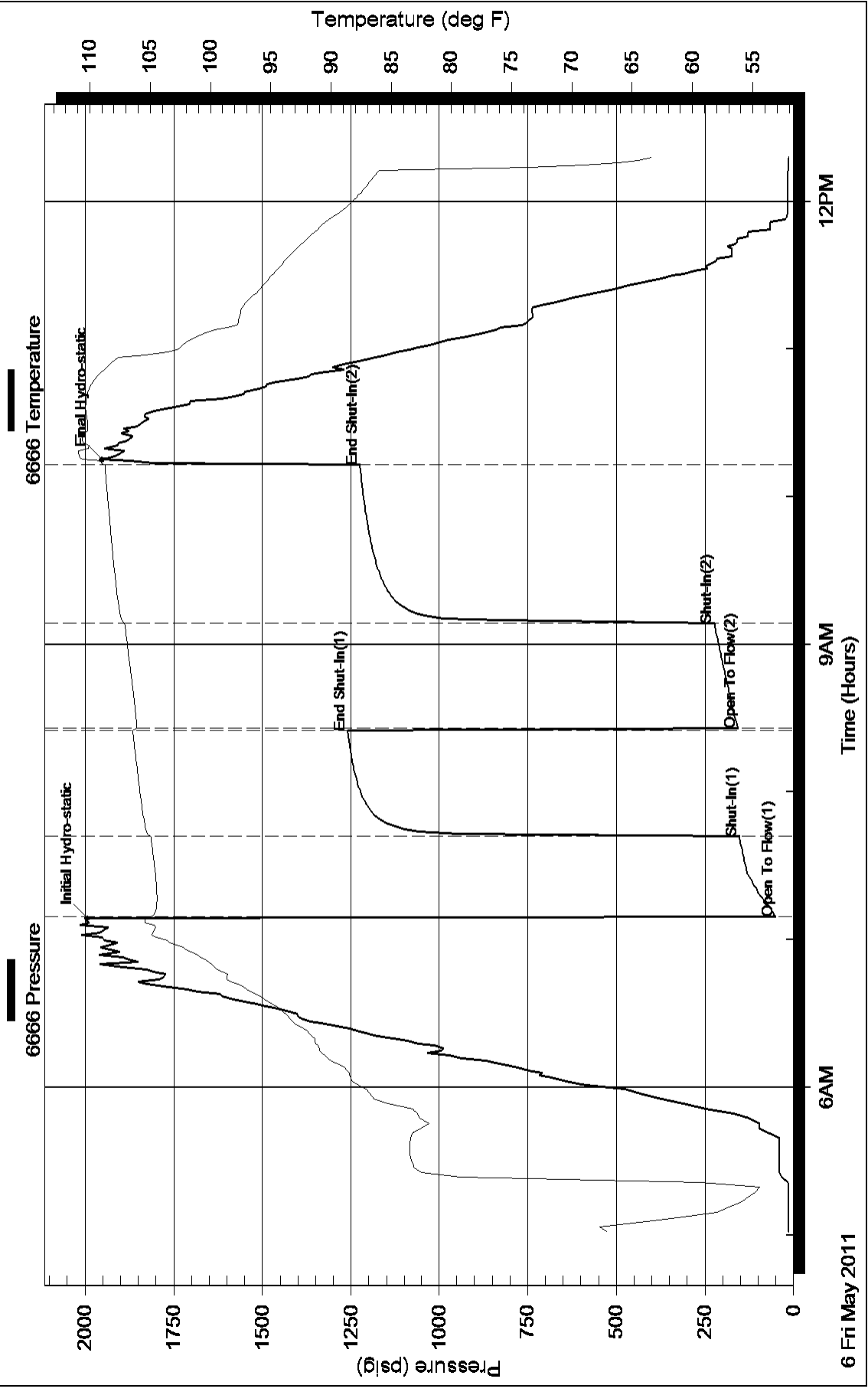
Laboratory Name:

Laboratory Location:

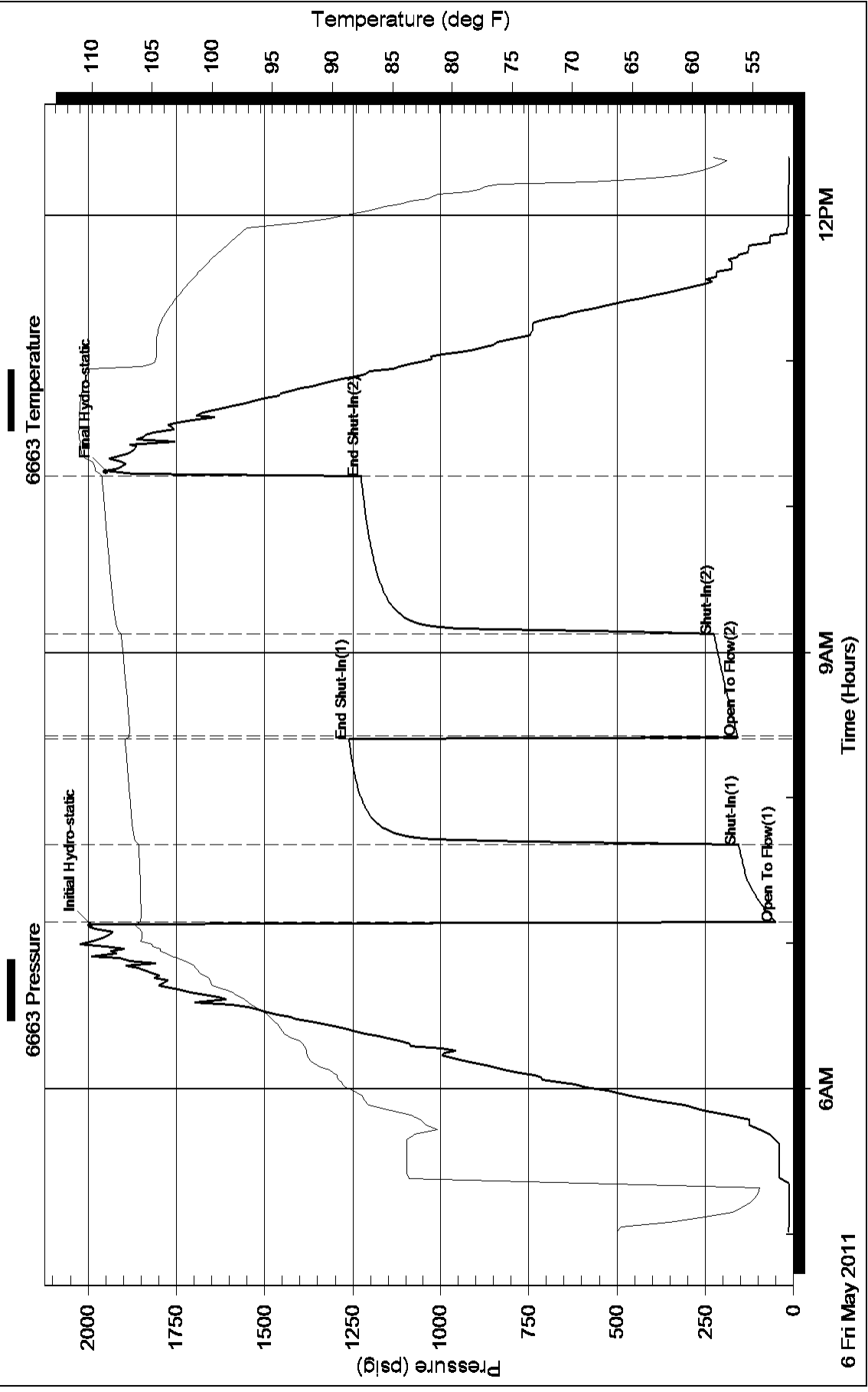
Recovery Comments: RECOVERY CHLORIDES WERE 47 PPM



### Pressure vs. Time



### Pressure vs. Time





## DRILL STEM TEST REPORT

Prepared For: **GRAND MESA OPERATING**

1700 N WATERFRONT PKWY BLDG 600  
WICHITA KS 67206

ATTN: BOB PETERSON

**7-21S-25W HODGEMAN**

**FRANCES 1-7**

Start Date: 2011.05.09 @ 12:00:00

End Date: 2011.05.09 @ 19:17:30

Job Ticket #: 1023                      DST #: 2

Eagle Testers LLC.

P.O.Box 1011, Great Bend, KS 67530

620-617-7548

Printed: 2011.05.09 @ 13:03:30

GRAND MESA OPERATING

FRANCES 1-7

7-21S-25W

HODGEMAN

DST # 2

MISSISSIPPIAN

2011.05.09



# DRILL STEM TEST REPORT

GRAND MESA OPERATING

FRANCES 1-7

1700 N WATERFRONT PKWY BLDG 600  
WICHITA KS 67206

7-21S-25W HODGEMAN

Job Ticket: 1023

DST#: 2

ATTN: BOB PETERSON

Test Start: 2011.05.09 @ 12:00:00

## GENERAL INFORMATION:

Formation: **MISSISSIPPIAN**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:19:00

Time Test Ended: 19:17:30

Test Type: Conventional Bottom Hole (Initial)

Tester: DAVID NICHOLS

Unit No: 15 184 MRT GREAT BE

Interval: **4421.00 ft (KB) To 4445.00 ft (KB) (TVD)**

Reference Elevations: 2395.00 ft (KB)

Total Depth: 4445.00 ft (KB) (TVD)

2390.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: **6666**

Inside

Press @ RunDepth: 52.15 psig @ 4441.00 ft (KB)

Capacity: 5000.00 psig

Start Date: 2011.05.09

End Date:

2011.05.09

Last Calib.:

2011.05.09

Start Time: 12:00:00

End Time:

19:17:30

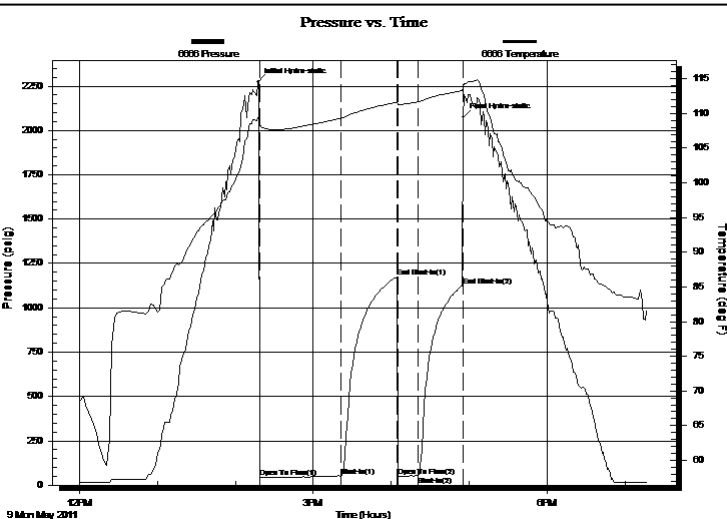
Time On Btm:

2011.05.09 @ 14:17:30

Time Off Btm:

2011.05.09 @ 16:55:30

TEST COMMENT: 60-INITIAL OPENING WEAK BLOW BUILT TO 1 INCH INTO WATER  
45-INITIAL SHUT IN NO BLOW BACK  
15-FINAL OPENING VERY WEAK SURFACE BLOW DIED AFTER 1 MIN  
30-FINAL SHUT IN NO BLOW BACK



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2272.45	109.33	Initial Hydro-static
2	42.36	108.34	Open To Flow (1)
64	50.18	109.33	Shut-In(1)
107	1174.48	111.63	End Shut-In(1)
108	50.30	111.37	Open To Flow (2)
124	52.15	111.67	Shut-In(2)
158	1125.61	113.30	End Shut-In(2)
158	2073.61	113.68	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
20.00	MUD 100%MUD	0.10

## Gas Rates

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



# DRILL STEM TEST REPORT

GRAND MESA OPERATING

FRANCES 1-7

1700 N WATERFRONT PKWY BLDG 600  
WICHITA KS 67206

7-21S-25W HODGEMAN

Job Ticket: 1023

DST#: 2

ATTN: BOB PETERSON

Test Start: 2011.05.09 @ 12:00:00

## GENERAL INFORMATION:

Formation: **MISSISSIPPIAN**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:19:00

Time Test Ended: 19:17:30

Test Type: Conventional Bottom Hole (Initial)

Tester: DAVID NICHOLS

Unit No: 15 184 MRT GREAT BE

Interval: **4421.00 ft (KB) To 4445.00 ft (KB) (TVD)**

Reference Elevations: 2395.00 ft (KB)

Total Depth: 4445.00 ft (KB) (TVD)

2390.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: **6663** Outside

Press @ RunDepth: 1125.06 psig @ 4442.00 ft (KB)

Capacity: 5000.00 psig

Start Date: 2011.05.09

End Date: 2011.05.09

Last Calib.: 2011.05.09

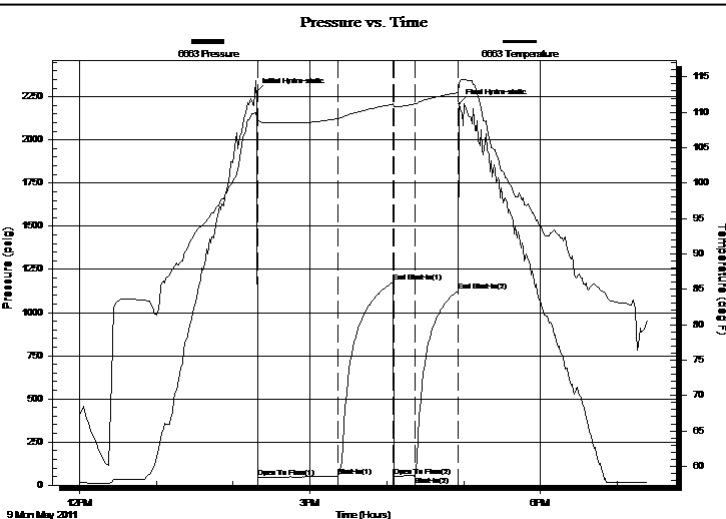
Start Time: 12:00:00

End Time: 19:23:30

Time On Btm: 2011.05.09 @ 14:18:00

Time Off Btm: 2011.05.09 @ 16:56:30

TEST COMMENT: 60-INITIAL OPENING WEAK BLOW BUILT TO 1 INCH INTO WATER  
45-INITIAL SHUT IN NO BLOW BACK  
15-FINAL OPENING VERY WEAK SURFACE BLOW DIED AFTER 1 MIN  
30-FINAL SHUT IN NO BLOW BACK



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2276.17	109.77	Initial Hydro-static
2	44.34	108.89	Open To Flow (1)
64	51.00	109.11	Shut-In(1)
107	1175.60	111.17	End Shut-In(1)
108	52.36	110.83	Open To Flow (2)
124	53.68	111.15	Shut-In(2)
158	1125.06	112.77	End Shut-In(2)
159	2210.35	114.10	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
20.00	MUD 100%MUD	0.10

## Gas Rates

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



# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

GRAND MESA OPERATING

**FRANCES 1-7**

1700 N WATERFRONT PKWY BLDG 600  
WICHITA KS 67206

**7-21S-25W HODGEMAN**

Job Ticket: 1023

**DST#: 2**

ATTN: BOB PETERSON

Test Start: 2011.05.09 @ 12:00:00

## Tool Information

Drill Pipe:	Length: 4215.00 ft	Diameter: 3.88 inches	Volume: 61.64 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 180.00 ft	Diameter: 2.25 inches	Volume: 0.89 bbl	Weight to Pull Loose: 74000.00 lb
			<u>Total Volume: 62.53 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	3.00 ft			String Weight: Initial 64000.00 lb
Depth to Top Packer:	4421.00 ft			Final 65000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	24.00 ft			
Tool Length:	53.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Shut-in tool	5.00			4397.00	
Hydraulic tool	5.00			4402.00	
Change over sub	1.00			4403.00	
Jars	6.00			4409.00	
Safety Joint	2.00			4411.00	
Packer	5.00			4416.00	29.00 Bottom Of Top Packer
Packer	5.00			4421.00	
Anchor	19.00			4440.00	
Recorder	1.00	6666	Inside	4441.00	
Recorder	1.00	6663	Outside	4442.00	
Bullnose	3.00			4445.00	24.00 Bottom Packers & Anchor

**Total Tool Length: 53.00**



# DRILL STEM TEST REPORT

FLUID SUMMARY

GRAND MESA OPERATING

FRANCES 1-7

1700 N WATERFRONT PKWY BLDG 600  
WICHITA KS 67206

7-21S-25W HODGEMAN

Job Ticket: 1023

DST#: 2

ATTN: BOB PETERSON

Test Start: 2011.05.09 @ 12:00:00

## 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:

ppm

Viscosity: 59.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.00 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5300.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	MUD 100%MUD	0.098

Total Length: 20.00 ft      Total Volume: 0.098 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

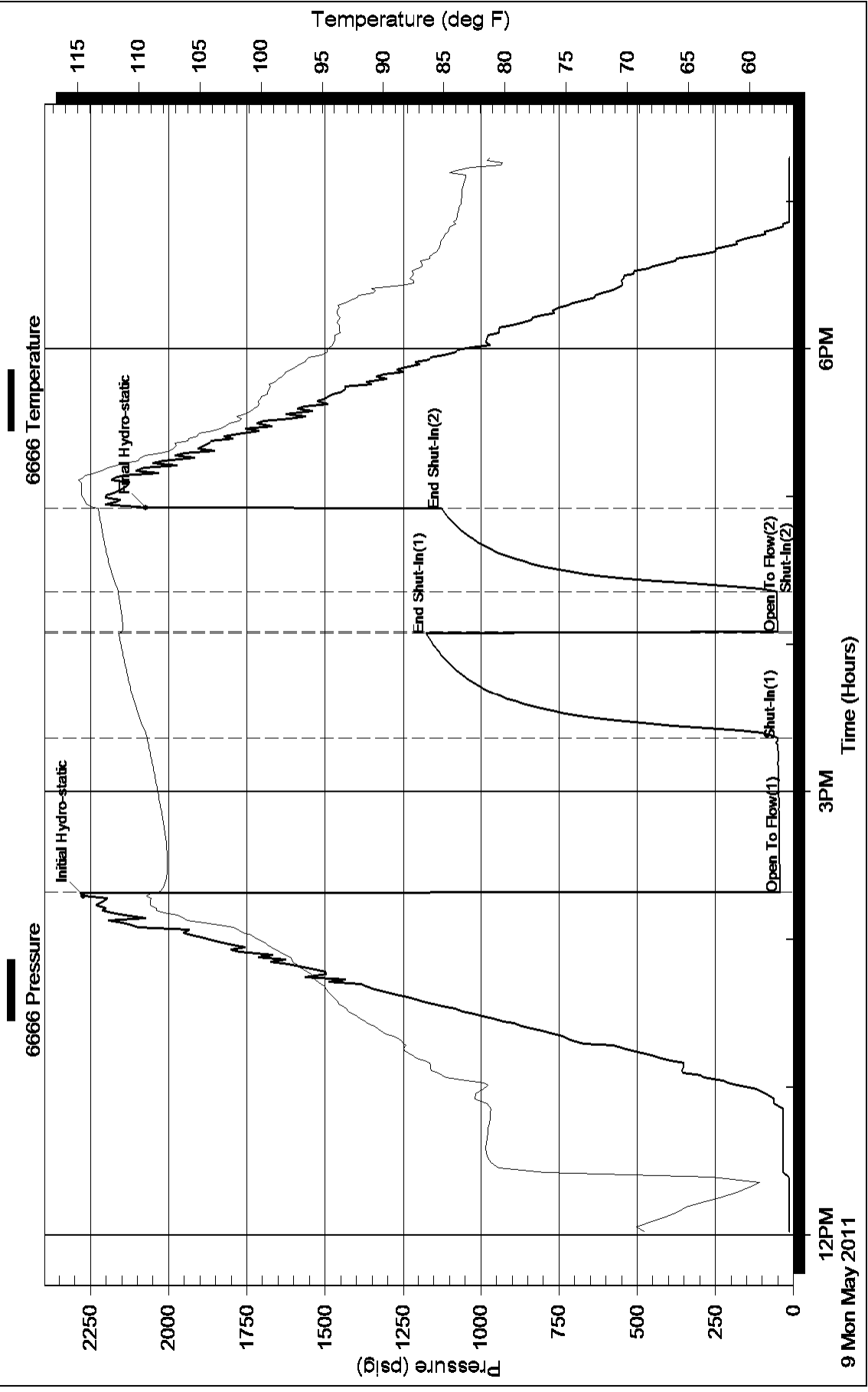
Serial #:

Laboratory Name:

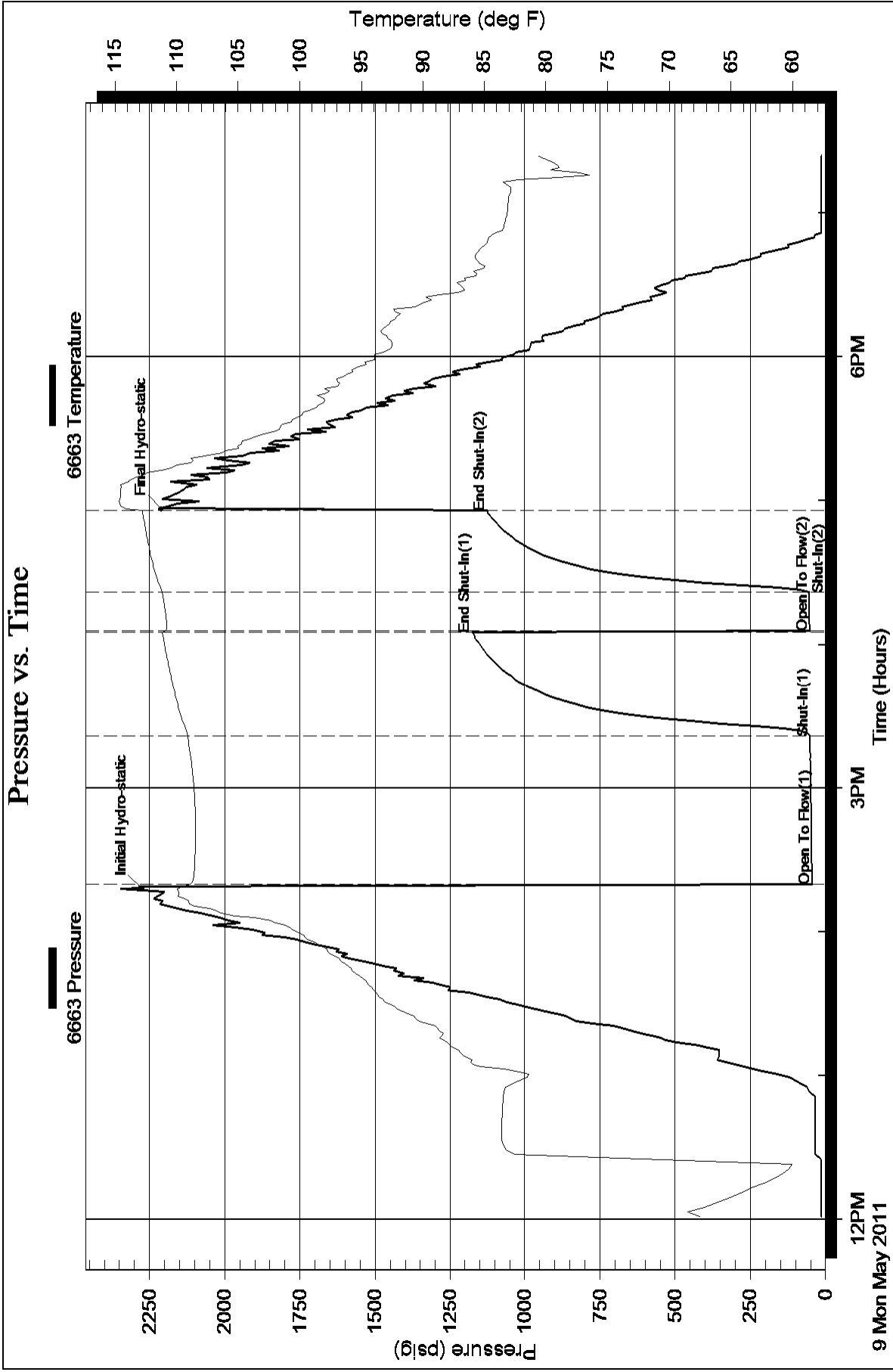
Laboratory Location:

Recovery Comments:

### Pressure vs. Time









## DRILL STEM TEST REPORT

Prepared For: **GRAND MESA OPERATING**

1700 N WATERFRONT PKWY BLDG 600  
WICHITA KS 67206

ATTN: BOB PETERSON

**7-21S-25W HODGEMAN**

**FRANCES 1-7**

Start Date: 2011.05.10 @ 01:00:00

End Date: 2011.05.10 @ 07:24:00

Job Ticket #: 1024                      DST #: 3

Eagle Testers LLC.

P.O.Box 1011, Great Bend, KS 67530

620-617-7548

Printed: 2011.05.10 @ 01:58:50

GRAND MESA OPERATING

FRANCES 1-7

7-21S-25W

HODGEMAN

DST # 3

MISSISSIPPIAN

2011.05.10



# DRILL STEM TEST REPORT

GRAND MESA OPERATING

FRANCES 1-7

1700 N WATERFRONT PKWY BLDG 600  
WICHITA KS 67206

7-21S-25W HODGEMAN

Job Ticket: 1024

DST#: 3

ATTN: BOB PETERSON

Test Start: 2011.05.10 @ 01:00:00

## GENERAL INFORMATION:

Formation: **MISSISSIPPIAN**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:10:30

Time Test Ended: 07:24:00

Test Type: Conventional Bottom Hole (Initial)

Tester: DAVID NICHOLS

Unit No: 15 184 MRT GREAT BE

Interval: **4420.00 ft (KB) To 4460.00 ft (KB) (TVD)**

Reference Elevations: 2395.00 ft (KB)

Total Depth: 4460.00 ft (KB) (TVD)

2390.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: **6666**

Inside

Press @ RunDepth: 73.10 psig @ 4456.00 ft (KB)

Capacity: 5000.00 psig

Start Date: 2011.05.10

End Date:

2011.05.10

Last Calib.:

2011.05.10

Start Time: 01:00:00

End Time:

07:24:00

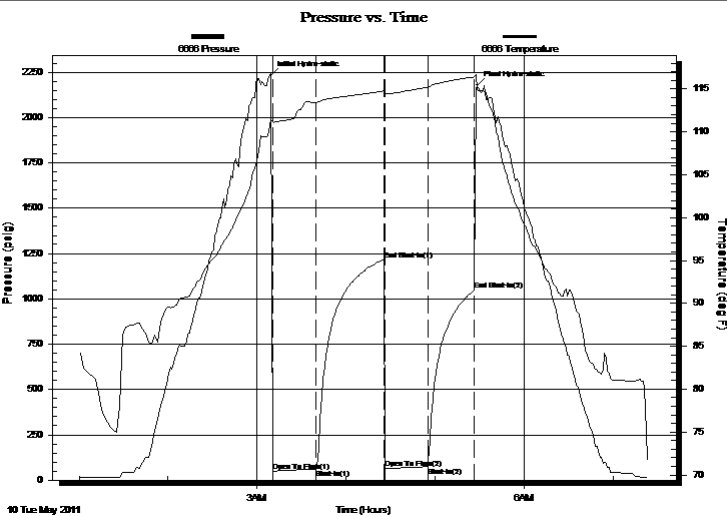
Time On Btm:

2011.05.10 @ 03:09:30

Time Off Btm:

2011.05.10 @ 05:28:30

TEST COMMENT: 30-INITIAL OPENING WEAK BLOW BUILT TO 1 INCH INTO WATER  
45-INITIAL SHUT IN NO BLOW BACK  
30-FINAL OPENING VERY WEAK SURFACE BLOW DIED AFTER 3 MINS  
30-FINAL SHUT IN NO BLOW BACK



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2232.04	111.46	Initial Hydro-static
1	48.63	111.15	Open To Flow (1)
30	60.61	113.38	Shut-In(1)
76	1216.78	114.75	End Shut-In(1)
77	62.73	114.48	Open To Flow (2)
106	73.10	115.20	Shut-In(2)
137	1047.50	116.41	End Shut-In(2)
139	2176.63	114.96	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
25.00	MUD WITH A TRACE OF WATER 95% M	50.12 \TER

## Gas Rates

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



# DRILL STEM TEST REPORT

GRAND MESA OPERATING

FRANCES 1-7

1700 N WATERFRONT PKWY BLDG 600  
WICHITA KS 67206

7-21S-25W HODGEMAN

Job Ticket: 1024

DST#: 3

ATTN: BOB PETERSON

Test Start: 2011.05.10 @ 01:00:00

## GENERAL INFORMATION:

Formation: **MISSISSIPPIAN**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:10:30

Time Test Ended: 07:24:00

Test Type: Conventional Bottom Hole (Initial)

Tester: DAVID NICHOLS

Unit No: 15 184 MRT GREAT BE

Interval: **4420.00 ft (KB) To 4460.00 ft (KB) (TVD)**

Reference Elevations: 2395.00 ft (KB)

Total Depth: 4460.00 ft (KB) (TVD)

2390.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: **6663**

Outside

Press @ RunDepth: 1049.26 psig @ 4457.00 ft (KB)

Capacity: 5000.00 psig

Start Date: 2011.05.10

End Date:

2011.05.10

Last Calib.:

2011.05.10

Start Time: 01:00:00

End Time:

07:29:00

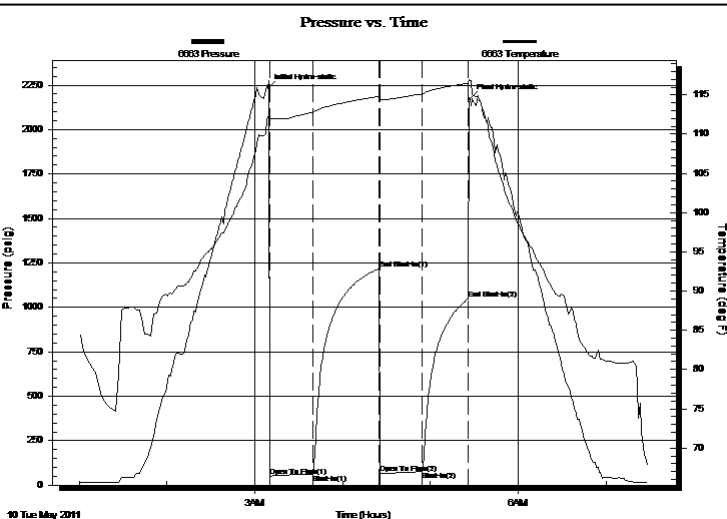
Time On Btm:

2011.05.10 @ 03:09:00

Time Off Btm:

2011.05.10 @ 05:27:00

TEST COMMENT: 30-INITIAL OPENING WEAK BLOW BUILT TO 1 INCH INTO WATER  
45-INITIAL SHUT IN NO BLOW BACK  
30-FINAL OPENING VERY WEAK SURFACE BLOW DIED AFTER 3 MINS  
30-FINAL SHUT IN NO BLOW BACK



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2232.70	112.22	Initial Hydro-static
1	50.48	111.89	Open To Flow (1)
31	62.84	112.79	Shut-In(1)
76	1218.34	114.81	End Shut-In(1)
77	64.52	114.46	Open To Flow (2)
106	75.86	115.13	Shut-In(2)
137	1049.26	116.49	End Shut-In(2)
138	2172.45	116.82	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
25.00	MUD WITH A TRACE OF WATER 95% MUD	50.12

## Gas Rates

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



# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

GRAND MESA OPERATING

**FRANCES 1-7**

1700 N WATERFRONT PKWY BLDG 600  
WICHITA KS 67206

**7-21S-25W HODGEMAN**

Job Ticket: 1024

**DST#: 3**

ATTN: BOB PETERSON

Test Start: 2011.05.10 @ 01:00:00

## Tool Information

Drill Pipe:	Length: 4214.00 ft	Diameter: 3.88 inches	Volume: 61.63 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 180.00 ft	Diameter: 2.25 inches	Volume: 0.89 bbl	Weight to Pull Loose: 75000.00 lb
			<u>Total Volume: 62.52 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	3.00 ft			String Weight: Initial 62000.00 lb
Depth to Top Packer:	4420.00 ft			Final 63000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	40.00 ft			
Tool Length:	69.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
------------------	-------------	------------	----------	------------	----------------

Shut-in tool	5.00			4396.00	
Hydraulic tool	5.00			4401.00	
Change over sub	1.00			4402.00	
Jars	6.00			4408.00	
Safety Joint	2.00			4410.00	
Packer	5.00			4415.00	29.00 Bottom Of Top Packer
Packer	5.00			4420.00	
Anchor	35.00			4455.00	
Recorder	1.00	6666	Inside	4456.00	
Recorder	1.00	6663	Outside	4457.00	
Bullnose	3.00			4460.00	40.00 Bottom Packers & Anchor

**Total Tool Length: 69.00**



# DRILL STEM TEST REPORT

## FLUID SUMMARY

GRAND MESA OPERATING

FRANCES 1-7

1700 N WATERFRONT PKWY BLDG 600  
WICHITA KS 67206

7-21S-25W HODGEMAN

Job Ticket: 1024

DST#: 3

ATTN: BOB PETERSON

Test Start: 2011.05.10 @ 01:00:00

### 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:

ppm

Viscosity: 59.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.00 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5300.00 ppm

Filter Cake: inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
25.00	MUD WITH A TRACE OF WATER 95%M 5%W.	0.123

Total Length: 25.00 ft      Total Volume: 0.123 bbl

Num Fluid Samples: 0

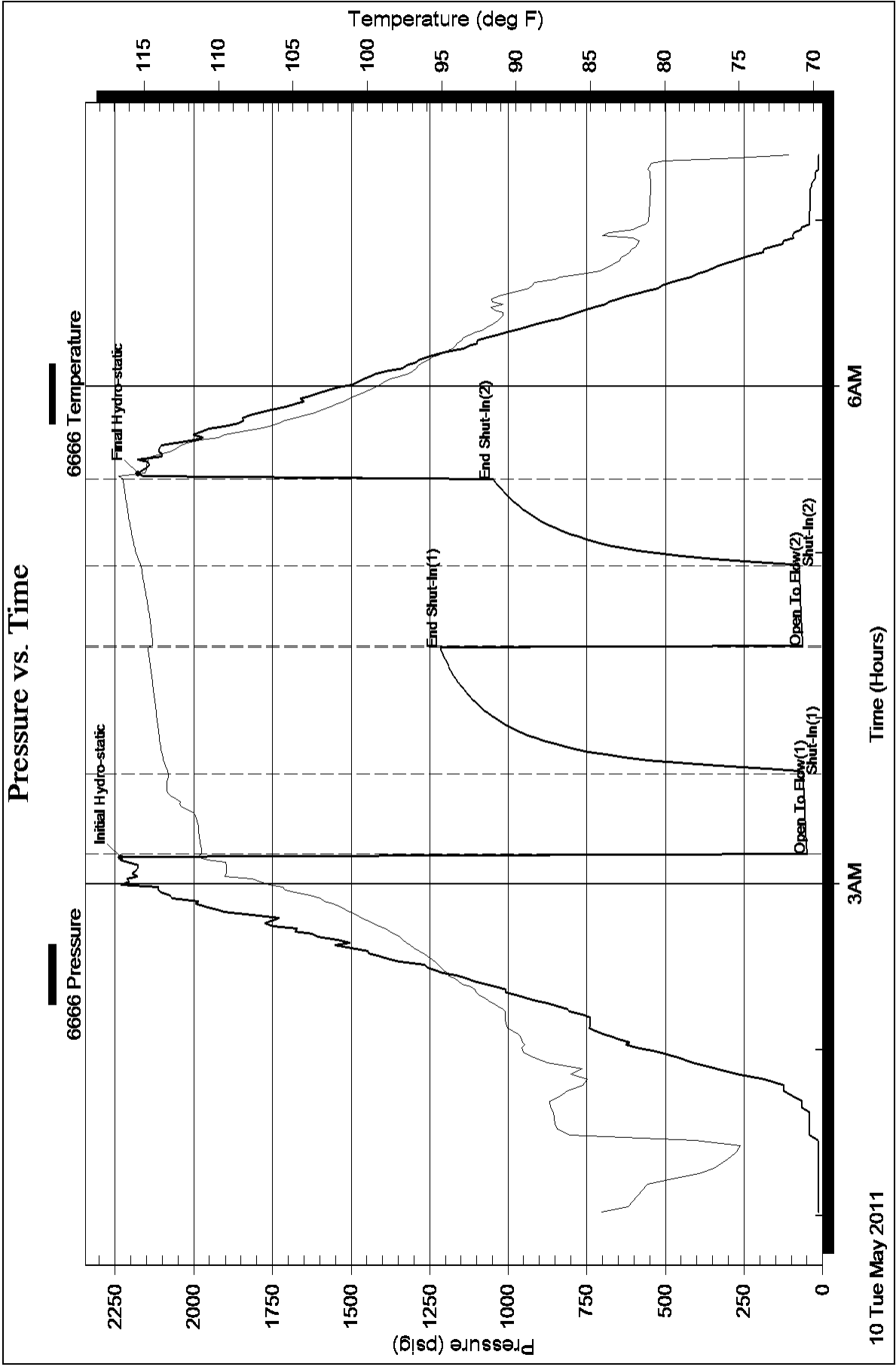
Num Gas Bombs: 0

Serial #:

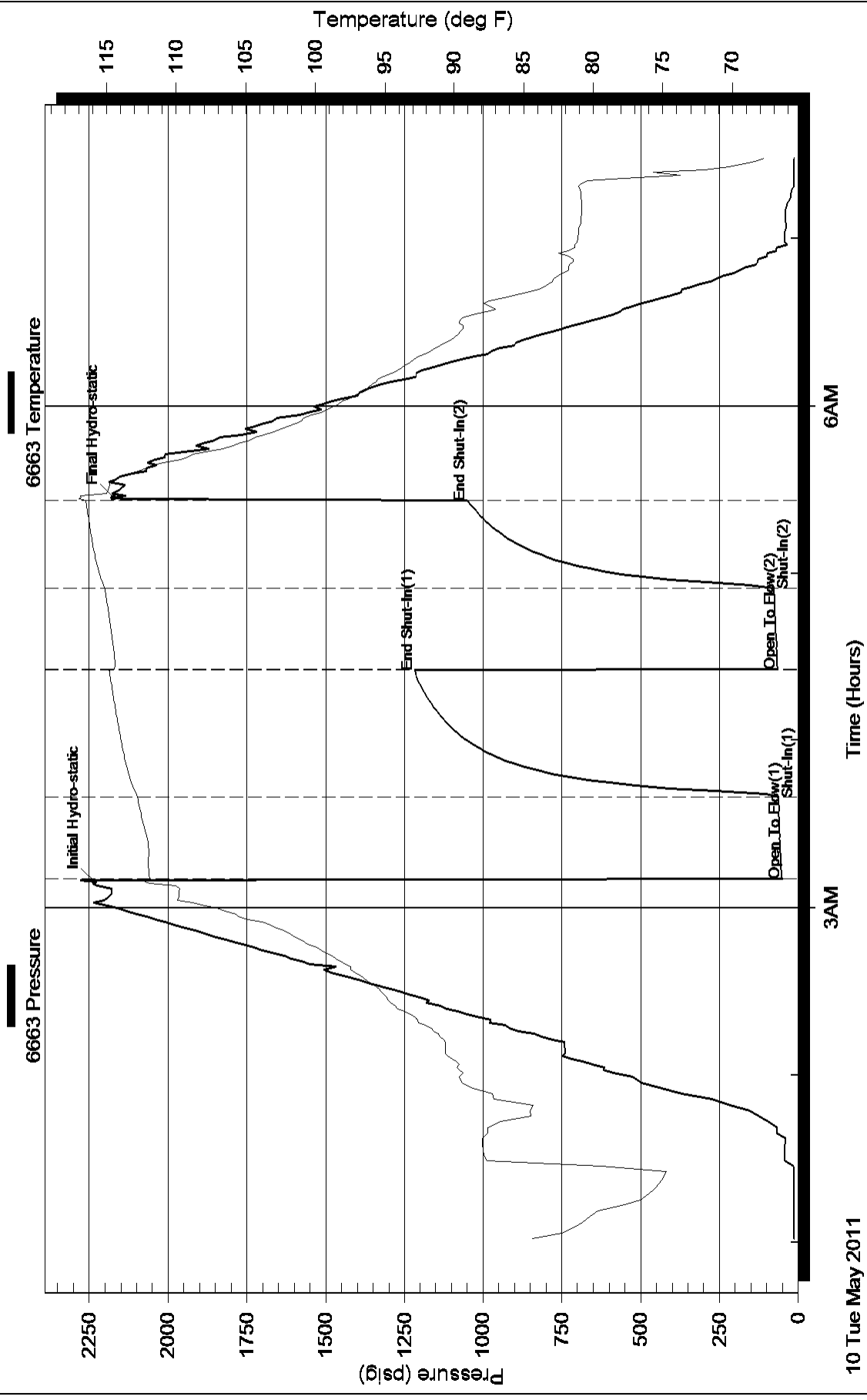
Laboratory Name:

Laboratory Location:

Recovery Comments:



### Pressure vs. Time







## DRILL STEM TEST REPORT

Prepared For: **GRAND MESA OPERATING**

1700 N WATERFRONT PKWY BLDG 600  
WICHITA KS 67206

ATTN: BOB PETERSON

**7-21S-25W HODGEMAN**

**FRANCES 1-7**

Start Date: 2011.05.10 @ 16:00:00

End Date: 2011.05.10 @ 23:40:30

Job Ticket #: 1025                      DST #: 4

Eagle Testers LLC.

P.O.Box 1011, Great Bend, KS 67530

620-617-7548

Printed: 2011.05.10 @ 17:04:52

GRAND MESA OPERATING

FRANCES 1-7

7-21S-25W

HODGEMAN

DST # 4

MISSISSIPPIAN

2011.05.10



# DRILL STEM TEST REPORT

GRAND MESA OPERATING

FRANCES 1-7

1700 N WATERFRONT PKWY BLDG 600  
WICHITA KS 67206

7-21S-25W HODGEMAN

Job Ticket: 1025

DST#: 4

ATTN: BOB PETERSON

Test Start: 2011.05.10 @ 16:00:00

## GENERAL INFORMATION:

Formation: **MISSISSIPPIAN**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:12:30

Time Test Ended: 23:40:30

Test Type: Conventional Bottom Hole (Initial)

Tester: DAVID NICHOLS

Unit No: 15 184 MRT GREAT BE

Interval: **4468.00 ft (KB) To 4482.00 ft (KB) (TVD)**

Reference Elevations: 2395.00 ft (KB)

Total Depth: 4482.00 ft (KB) (TVD)

2390.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: **6666**

Inside

Press @ RunDepth: 42.75 psig @ 4478.00 ft (KB)

Capacity: 5000.00 psig

Start Date: 2011.05.10

End Date:

2011.05.10

Last Calib.:

2011.05.10

Start Time: 16:00:00

End Time:

23:40:30

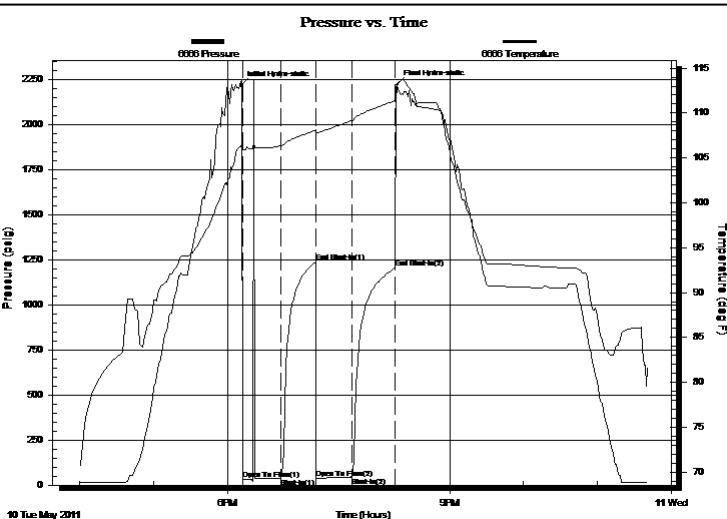
Time On Btm:

2011.05.10 @ 18:11:00

Time Off Btm:

2011.05.10 @ 20:17:30

TEST COMMENT: 30-INITIAL OPENING VERY WEAK SURFACE BLOW FLUSHED TOOL AFTER 10 MINS VERY WEAK SURFACE BLOW  
30-INITIAL SHUT IN NO BLOW BACK  
30-FINAL OPENING NO BLOW  
30-FINAL SHUT IN NO BLOW BACK



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2218.19	106.39	Initial Hydro-static
2	33.85	106.03	Open To Flow (1)
33	38.13	106.36	Shut-In(1)
61	1238.34	108.11	End Shut-In(1)
61	39.22	107.76	Open To Flow (2)
90	42.75	109.14	Shut-In(2)
125	1205.38	111.37	End Shut-In(2)
127	2222.15	112.72	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
10.00	MUD 100% MUD	0.05

## Gas Rates

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



# DRILL STEM TEST REPORT

GRAND MESA OPERATING

FRANCES 1-7

1700 N WATERFRONT PKWY BLDG 600  
WICHITA KS 67206

7-21S-25W HODGEMAN

Job Ticket: 1025

DST#: 4

ATTN: BOB PETERSON

Test Start: 2011.05.10 @ 16:00:00

## GENERAL INFORMATION:

Formation: **MISSISSIPPIAN**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:12:30

Time Test Ended: 23:40:30

Test Type: Conventional Bottom Hole (Initial)

Tester: DAVID NICHOLS

Unit No: 15 184 MRT GREAT BE

Interval: **4468.00 ft (KB) To 4482.00 ft (KB) (TVD)**

Reference Elevations: 2395.00 ft (KB)

Total Depth: 4482.00 ft (KB) (TVD)

2390.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: **6663** Outside

Press @ RunDepth: 1206.46 psig @ 4479.00 ft (KB)

Capacity: 5000.00 psig

Start Date: 2011.05.10

End Date: 2011.05.10

Last Calib.: 2011.05.10

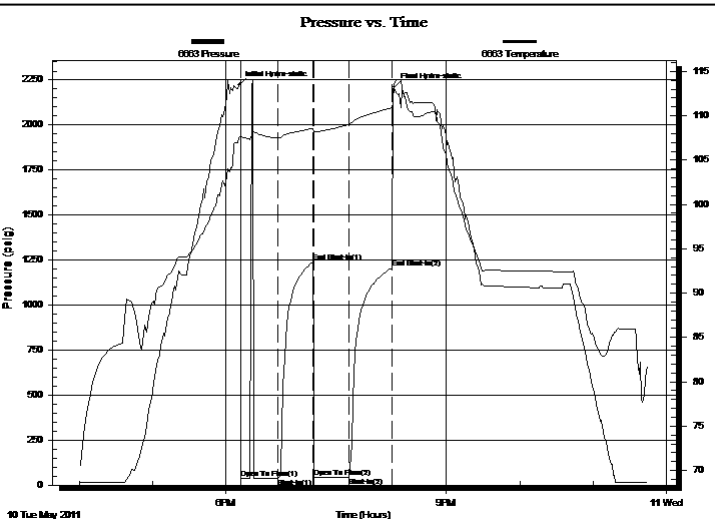
Start Time: 16:00:00

End Time: 23:44:30

Time On Btm: 2011.05.10 @ 18:10:30

Time Off Btm: 2011.05.10 @ 20:17:30

TEST COMMENT: 30-INITIAL OPENING VERY WEAK SURFACE BLOW FLUSHED TOOL AFTER 10 MINS VERY WEAK SURFACE BLOW  
30-INITIAL SHUT IN NO BLOW BACK  
30-FINAL OPENING NO BLOW  
30-FINAL SHUT IN NO BLOW BACK



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2220.06	107.51	Initial Hydro-static
2	35.60	107.53	Open To Flow (1)
33	40.06	107.54	Shut-In(1)
61	1239.25	108.61	End Shut-In(1)
62	41.05	108.26	Open To Flow (2)
90	44.19	109.02	Shut-In(2)
125	1206.46	110.94	End Shut-In(2)
127	2210.30	113.64	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
10.00	MUD 100% MUD	0.05

## Gas Rates

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



# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

GRAND MESA OPERATING

**FRANCES 1-7**

1700 N WATERFRONT PKWY BLDG 600  
WICHITA KS 67206

**7-21S-25W HODGEMAN**

Job Ticket: 1025

**DST#: 4**

ATTN: BOB PETERSON

Test Start: 2011.05.10 @ 16:00:00

## Tool Information

Drill Pipe:	Length: 4262.00 ft	Diameter: 3.88 inches	Volume: 62.33 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length: 180.00 ft	Diameter: 2.25 inches	Volume: 0.89 bbl	Weight to Pull Loose:	80000.00 lb
			<u>Total Volume: 63.22 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	3.00 ft			String Weight: Initial	62000.00 lb
Depth to Top Packer:	4468.00 ft			Final	62000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	14.00 ft				
Tool Length:	43.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
------------------	-------------	------------	----------	------------	----------------

Shut-in tool	5.00			4444.00	
Hydraulic tool	5.00			4449.00	
Change over sub	1.00			4450.00	
Jars	6.00			4456.00	
Safety Joint	2.00			4458.00	
Packer	5.00			4463.00	29.00 Bottom Of Top Packer
Packer	5.00			4468.00	
Anchor	9.00			4477.00	
Recorder	1.00	6666	Inside	4478.00	
Recorder	1.00	6663	Outside	4479.00	
Bullnose	3.00			4482.00	14.00 Bottom Packers & Anchor

**Total Tool Length: 43.00**



# DRILL STEM TEST REPORT

## FLUID SUMMARY

GRAND MESA OPERATING

**FRANCES 1-7**

1700 N WATERFRONT PKWY BLDG 600  
WICHITA KS 67206

**7-21S-25W HODGEMAN**

Job Ticket: 1025

**DST#: 4**

ATTN: BOB PETERSON

Test Start: 2011.05.10 @ 16:00:00

### 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:

ppm

Viscosity: 68.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.40 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6700.00 ppm

Filter Cake: inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	MUD 100% MUD	0.049

Total Length: 10.00 ft      Total Volume: 0.049 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

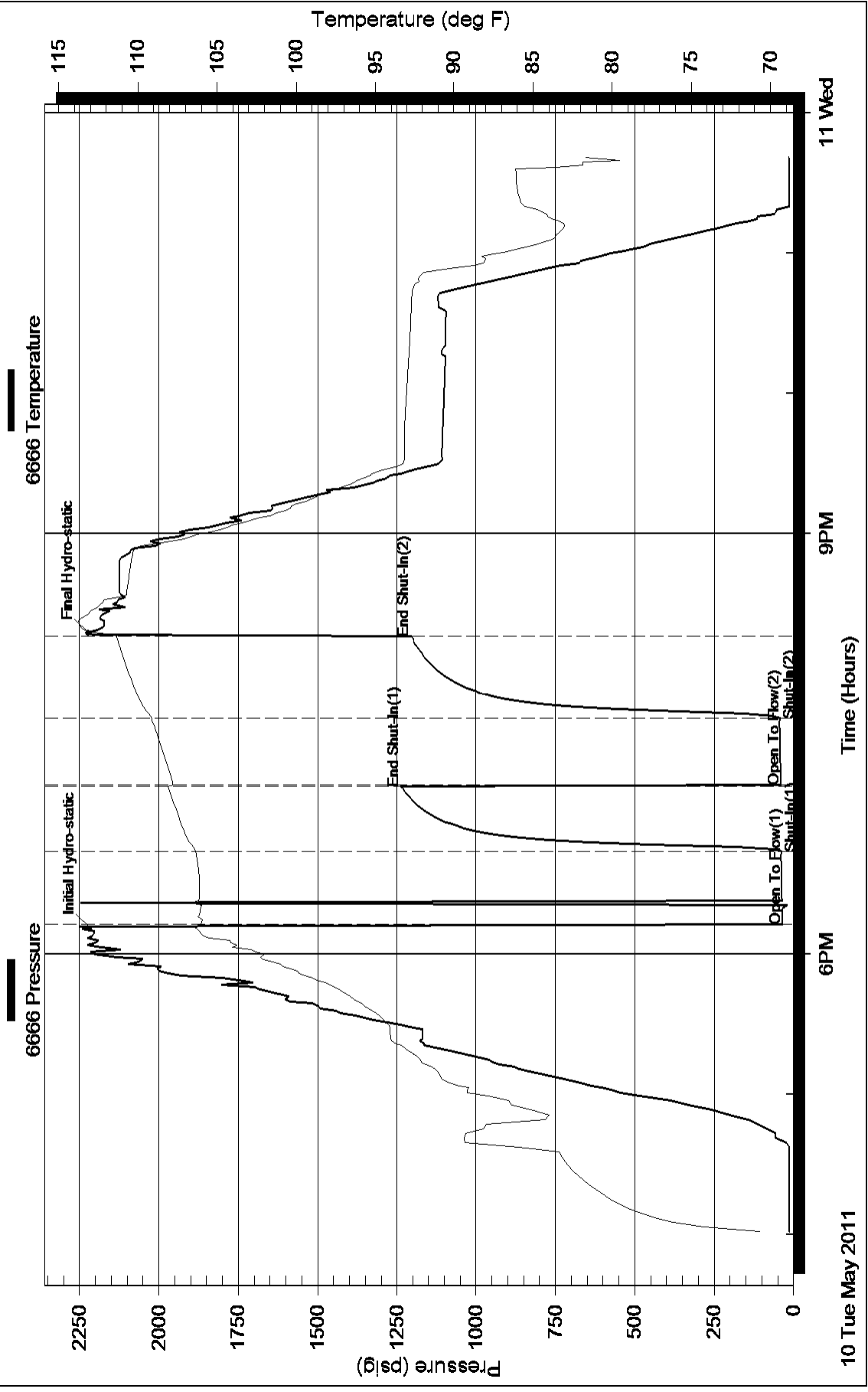
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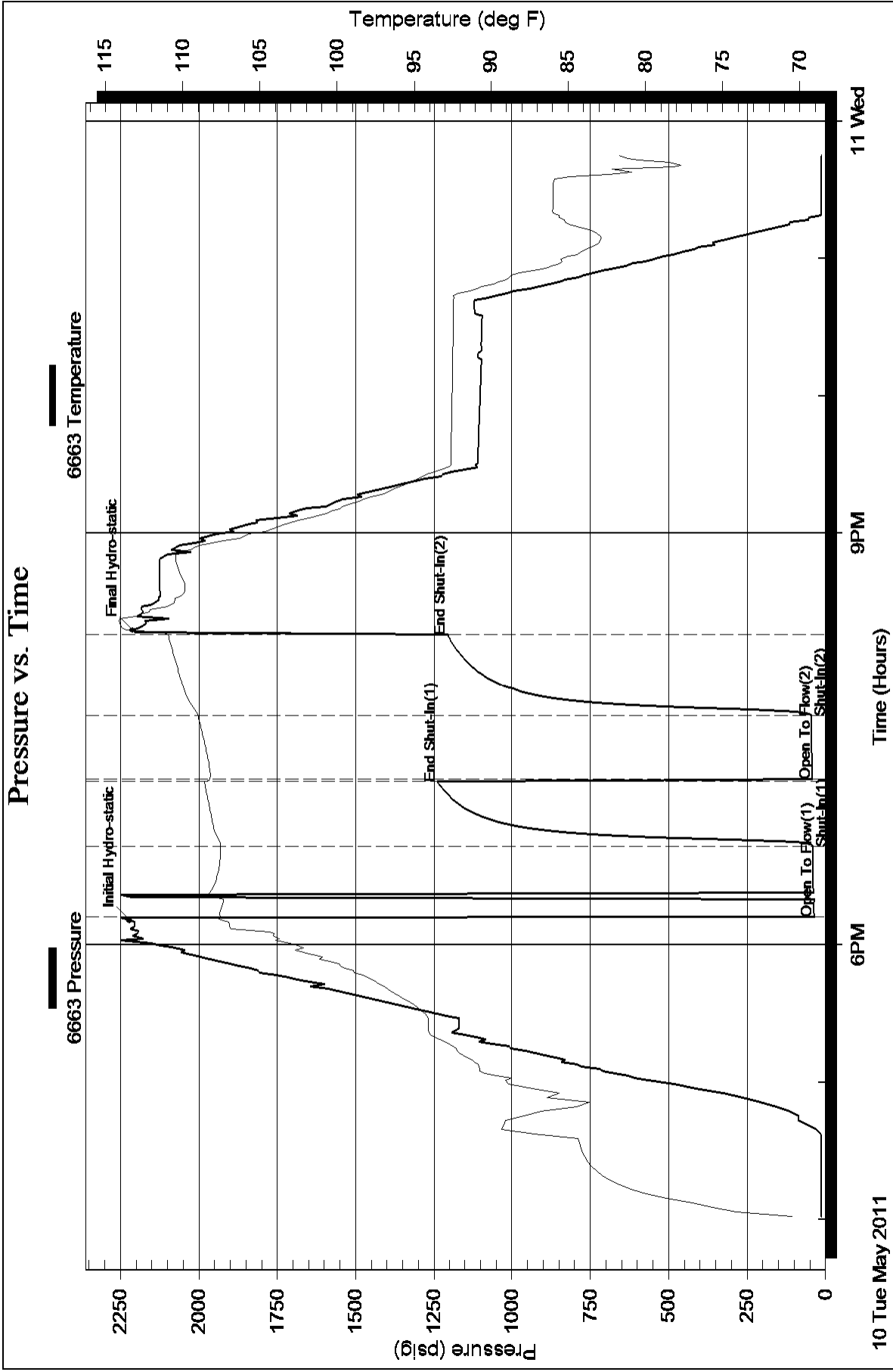
Laboratory Name:

Laboratory Location:

Recovery Comments:

### Pressure vs. Time





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/>

Thomas E. Wright, Chairman  
Ward Loyd, Commissioner

Corporation Commission

Sam Brownback, Governor

May 13, 2011

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

Re: ACO1  
API 15-083-21701-00-00  
Frances 1-7  
NE/4 Sec.07-21S-25W  
Hodgeman 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



# GEOLOGIST'S REPORT

## DRILLING TIME AND SAMPLE LOG

**GRAND MESA OPERATING CO.**

**FRANCES #1-7**  
 1,187' FNL & 1,733 FEL  
 SW SE NW NE  
 7-21-25W  
 HODGEMAN COUNTY, KANSAS  
 API: 15-083-21701-00-00

### ELEVATION

**KB: 2395'**  
**GL: 2390'**  
**LOG MEASURED FROM: KB**

### SURFACE CASING

Ran 5 jts of new 2 3/8" 8 5/8" surface csg.  
 Tally 215.43' Set @ 222' KB.  
 Cemented w/165 sx  
 Common, 3% CC, 2% Gel.

### PRODUCTION CASING

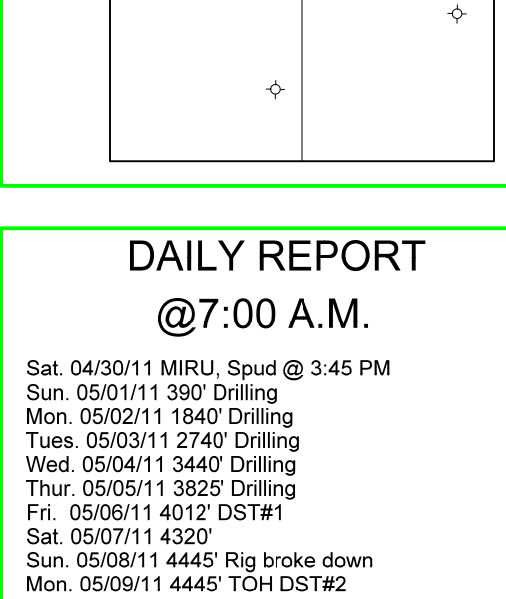
N/A D&A

### WELL LOG SURVEYS

DIL/CDL w/micro

### FORMATION TOPS

Formation	Sample Top	Datum	Elev. Log	Datum	Pos.
Stone Corral	1609	+786	1608	+787	-11
Heebner	3731	-1336	3730	-1335	-11
Lansing	3775	-1380	3771	-1376	-8
Muncie Creek	3949	-1554	3947	-1552	-12
Hushpuckney	4088	-1693	4084	-1689	-13
Marmaton	4167	-1772	4162	-1767	-11
Pawnee	4220	-1825	4216	-1821	-15
Little Osage	4263	-1868	4257	-1862	-13
Morrow	4389	-1994	4380	-1985	-4
Mississippian	4407	-2012	4407	-2012	-18



### REFERENCE WELL:

O'Brien - Scarth #1-7  
 Hodgeman County, KS  
 KB 2398'  
 NE SE  
 Sec. 7-21S-25W

### REMARKS AND RECOMMENDATIONS

Due to the poor drill stem test results this well was plugged and abandoned by the operator.

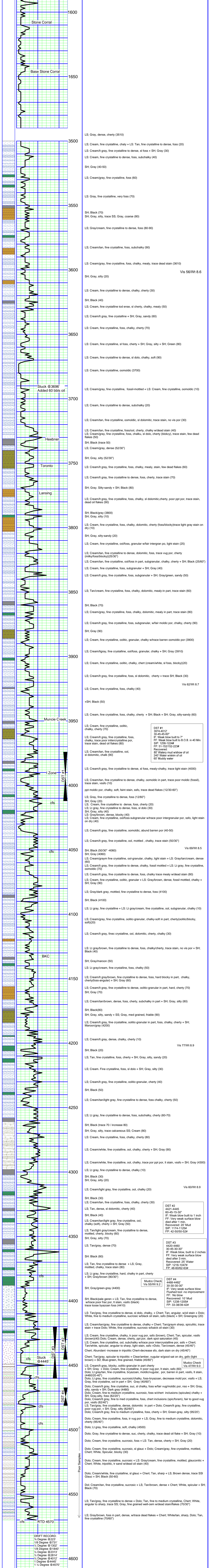
Respectfully submitted,  
*Robert J. Petersen*

Robert J. Petersen May 12, 2011

### DAILY REPORT

@ 7:00 A.M.

Sat. 04/30/11 MIRU, Spud @ 3:45 PM  
 Sun. 05/01/11 390' Drilling  
 Mon. 05/02/11 1840' Drilling  
 Tues. 05/03/11 2740' Drilling  
 Wed. 05/04/11 3440' Drilling  
 Thur. 05/05/11 3825' Drilling  
 Fri. 05/06/11 4012' DST#1  
 Sat. 05/07/11 4320'  
 Sun. 05/08/11 4445' Rig broke down  
 Mon. 05/09/11 4445' TOH DST#2  
 Tues. 05/10/11 4466'  
 Wed. 05/11/11 4570' TOH for log



DST #1  
 3974-4012'  
 30-45-60"  
 IF: Weak blow built to 7"  
 FF: Weak blow built to B.O.B. in 40 Min.  
 SIP: 1258-1224#  
 FP: 51-152/152-223#  
 Recovered:  
 50' Watery mud w/whow of oil  
 240' Water wiskm of oil  
 60' Muddy water

DST #2  
 4421-4445'  
 60-45-15-30"  
 IF: Weak blow built to 1 inch  
 FF: Very weak surface blow died after 3 min.  
 Recovered: 20' Mud  
 SIP: 1174-1125#  
 FP: 42-50/50-52#

DST #3  
 4420-4460'  
 30-45-30-30"  
 IF: Weak blow built to 2 inches  
 FF: Very weak surface blow died after 3 min.  
 Recovered: 25' Water  
 SIP: 1216-1047#  
 FP: 48-60/62-63#

DST #4  
 4468-4482'  
 30-30-30-30"  
 IF: Very weak surface blow  
 Flushed tool - no improvement  
 FF: No blow  
 Recovered: 10' Mud  
 SIP: 1239-1205#  
 FP: 33-38/39-42#

Mudco Check  
 Vis 55/Wt 9.2

DST #44  
 4468-4482'  
 30-30-30-30"  
 IF: Very weak surface blow  
 Flushed tool - no improvement  
 FF: No blow  
 Recovered: 10' Mud  
 SIP: 1239-1205#  
 FP: 33-38/39-42#

DRIFT RECORD:  
 1/8 Degree @ 223'  
 1/8 Degree @ 731'  
 1/8 Degree @ 1302'  
 1/8 Degree @ 1340'  
 1/8 Degree @ 2313'  
 1/8 Degree @ 2814'  
 1/8 Degree @ 4012'  
 1/8 Degree @ 4445'  
 1/8 Degree @ 4570'

# ALLIED CEMENTING CO., LLC. 038803

Federal Tax I.D.# 20-5975804

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

SERVICE POINT:  
Great Bend KS

DATE <u>4-30-11</u>	SEC. <u>7</u>	TWP. <u>21S</u>	RANGE <u>25W</u>	CALLED OUT	ON LOCATION	JOB START <u>8:15 PM</u>	JOB FINISH <u>8:45 PM</u>
LEASE <u>Francis</u>	WELL # <u>1-2</u>	LOCATION <u>Ness City South To x RD</u>			COUNTY <u>Hodgeman</u>	STATE <u>KS</u>	
OLD OR <u>NEW</u> (Circle one)		<u>1 1/2 west of south East into</u>					

CONTRACTOR Martin Riggs  
 TYPE OF JOB Surface  
 HOLE SIZE 12 1/4 T.D. 222  
 CASING SIZE 8 5/8 DEPTH 222  
 TUBING SIZE DEPTH  
 DRILL PIPE DEPTH  
 TOOL DEPTH  
 PRES. MAX MINIMUM  
 MEAS. LINE SHOE JOINT  
 CEMENT LEFT IN CSG. 15  
 PERFS.  
 DISPLACEMENT 13.25 BBLs

EQUIPMENT  
 PUMP TRUCK CEMENTER Wayne  
 # 366 HELPER Gus  
 BULK TRUCK  
 # 344-170 DRIVER Jent  
 BULK TRUCK  
 # DRIVER

REMARKS:

Pipe on Bottom Break circulation with Rig mud  
Shut Down Hook up to Cementing  
Run 5 BBLs Ahead  
Mix 165 SX <sup>Common</sup> + 29% G + 2% Gel  
Shut Down Rotate Plus  
Displace 13.25 BBLs fresh water  
Shut in Cement did circulate  
Rig Down

CHARGE TO: Grand Mesa Operating  
 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 Rodney Farr  
 SIGNATURE Rodney Farr

OWNER Grand mesa Corporation  
 CEMENT  
 AMOUNT ORDERED 165 SX <sup>Common</sup> + 3% G + 2% Gel  
 COMMON 165 @ 16.25 2,681.25  
 POZMIX @ \_\_\_\_\_  
 GEL 3 @ 21.25 63.75  
 CHLORIDE 6 @ 58.20 349.20  
 ASC @ \_\_\_\_\_  
 @ \_\_\_\_\_  
 @ \_\_\_\_\_  
 @ \_\_\_\_\_  
 @ \_\_\_\_\_  
 @ \_\_\_\_\_  
 @ \_\_\_\_\_  
 @ \_\_\_\_\_  
 @ \_\_\_\_\_  
 HANDLING 174 @ 2.25 391.50  
 MILEAGE 174 X 85 x .11 1,626.90  
 TOTAL 5,112.60

SERVICE

DEPTH OF JOB 223  
 PUMP TRUCK CHARGE 1125.00  
 EXTRA FOOTAGE @ \_\_\_\_\_  
 MILEAGE 170 @ 7.00 1190.00  
 MANIFOLD @ \_\_\_\_\_  
Light Touch 170 @ 4.00 680.00  
 @ \_\_\_\_\_  
 TOTAL 2995.00

PLUG & FLOAT EQUIPMENT

@ \_\_\_\_\_  
 @ \_\_\_\_\_  
 @ \_\_\_\_\_  
 @ \_\_\_\_\_  
 @ \_\_\_\_\_  
 TOTAL \_\_\_\_\_

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

# ALLIED CEMENTING CO., LLC. 038805

Federal Tax I.D.# 20-5975804

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

SERVICE POINT:  
Geat Bend W

DATE <u>5-11-11</u>	SEC. <u>7</u>	TWP. <u>21S</u>	RANGE <u>25W</u>	CALLED OUT	ON LOCATION	JOB START <u>8:30 PM</u>	JOB FINISH <u>9:00 PM</u>
LEASE <u>Francis</u>	WELL# <u>1-7</u>	LOCATION <u>Ness City South To XRD</u>			COUNTY <u>Hodgeman</u>	STATE <u>KS</u>	
OLD OR <u>NEW</u> (Circle one)			<u>1 1/2 west South East to</u>				

CONTRACTOR Martin Rig &  
 TYPE OF JOB Rotary Plus  
 HOLE SIZE 7 1/2 T.D. 4570  
 CASING SIZE DEPTH  
 TUBING SIZE DEPTH  
 DRILL PIPE 4 1/2 DEPTH 1640  
 TOOL DEPTH  
 PRES. MAX MINIMUM  
 MEAS. LINE SHOE JOINT  
 CEMENT LEFT IN CSG.  
 PERFS.  
 DISPLACEMENT

OWNER Grand mesq  
 CEMENT  
 AMOUNT ORDERED 240 SX 60/40 + 4% Gal + 1/4 flo seal

EQUIPMENT  
 PUMP TRUCK CEMENTER Wayne  
 # 366 HELPER Wayne  
 BULK TRUCK  
 # 482-188 DRIVER Geat  
 BULK TRUCK  
 # DRIVER

COMMON	<u>144</u>	@	<u>16.25</u>	<u>2,340.00</u>
POZMIX	<u>96</u>	@	<u>8.50</u>	<u>816.00</u>
GEL	<u>8</u>	@	<u>21.25</u>	<u>170.00</u>
CHLORIDE		@		
ASC		@		
<u>flo seal</u>	<u>60#</u>	@	<u>2.70</u>	<u>162.00</u>
		@		
		@		
		@		
		@		
		@		
		@		
HANDLING	<u>250</u>	@	<u>2.25</u>	<u>562.50</u>
MILEAGE	<u>250 x 85 x .11</u>			<u>2,337.50</u>
TOTAL				<u>6,388.00</u>

REMARKS:  
1<sup>st</sup> ply 1640 mix 50SX  
2nd ply 780 mix 80SX  
3rd ply 250 mix 40SX  
4th ply 60 mix 20SX  
Ret hole mix 30SX  
mouse hole mix 20SX

SERVICE

DEPTH OF JOB	<u>1640</u>		
PUMP TRUCK CHARGE			<u>1250.00</u>
EXTRA FOOTAGE		@	
MILEAGE	<u>170</u>	@	<u>7.00</u> <u>1190.00</u>
MANIFOLD		@	
<u>light touch</u>	<u>170</u>	@	<u>4.00</u> <u>680.00</u>
		@	
TOTAL <u>3,120.00</u>			

CHARGE TO: Grand mesq operating  
 STREET \_\_\_\_\_  
 CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

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 [scribble]  
 DISCOUNT [scribble] IF PAID IN 30 DAYS

PRINTED NAME Rayney Farr  
 SIGNATURE [Signature]