

KANSAS CORPORATION COMMISSION 1047231
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 # 9855
 Name: Grand Mesa Operating Company
 Address 1: 1700 N WATERFRONT PKWY BLDG 600
 Address 2: _____
 City: WICHITA State: KS Zip: 67206 + 5514
 Contact Person: Ronald N. Sinclair
 Phone: (316) 265-3000
 CONTRACTOR: License # 30606
 Name: Murfin Drilling Co., Inc.
 Wellsite Geologist: Robert J. Petersen
 Purchaser: NCRA

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

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

Well Name: _____

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

<u>09/30/2010</u>	<u>10/10/2010</u>	<u>11/03/2010</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-109-20950-00-00
 Spot Description: 356' FSL & 2585' FWL NESESESW
NE SE SW Sec. 26 Twp. 12 S. R. 32 East West
356 Feet from North / South Line of Section
2585 Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:
 NE NW SE SW
 County: Logan
 Lease Name: G. Andersen Well #: 2-26
 Field Name: Wildcat

Producing Formation: Lansing
 Elevation: Ground: 2990 Kelly Bushing: 2995
 Total Depth: 4664 Plug Back Total Depth: 4643
 Amount of Surface Pipe Set and Cemented at: 220 Feet
 Multiple Stage Cementing Collar Used? Yes No
 If yes, show depth set: 2529 Feet
 If Alternate II completion, cement circulated from: 2529
 feet depth to: 0 w/ 255 sx cmt.

Drilling Fluid Management Plan
(Data must be collected from the Reserve Pit)
 Chloride content: 7500 ppm Fluid volume: 900 bbls
 Dewatering method used: Evaporated
 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	
<input checked="" type="checkbox"/> Letter of Confidentiality Received	Date: <u>11/19/2010</u>
<input checked="" type="checkbox"/> Confidential Release Date: <u>11/18/2012</u>	
<input checked="" type="checkbox"/> Wireline Log Received	
<input checked="" type="checkbox"/> Geologist Report Received	
<input type="checkbox"/> UIC Distribution	
ALT <input type="checkbox"/> I <input checked="" type="checkbox"/> II <input type="checkbox"/> III	Approved by: <u>NAOMI JAMES</u> Date: <u>11/22/2010</u>



1047231

Operator Name: Grand Mesa Operating Company Lease Name: G. Andersen Well #: 2-26
 Sec. 26 Twp. 12 S. R. 32 East West County: Logan

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

Drill Stem Tests Taken (Attach Additional Sheets)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Name Attached	Top Attached	Datum Attached
Cores Taken	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
Electric Log Run	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
Electric Log Submitted Electronically (If no, Submit Copy)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
List All E. Logs Run: Compact Photo Den./Comp. Neu. Log; AI Shallow Foc. Elect Log; Micro-Res Log; Dual Rec. Cement Bond Log				

CASING RECORD <input checked="" type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
Surface	12.25	8.625	23	220	Common	165	3% CC; 2% Gel
Production	7.875	5.50	15.5	4653	EA-2	175	

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input checked="" type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone	0-2529	SMD	255	
	-			

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
4	4090-4094	300 Gal. 15% MCA Acid	4090-4094

TUBING RECORD:	Size: <u>2.875</u>	Set At: <u>4211</u>	Packer At:	Liner Run: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumed Production, SWD or ENHR. <u>11/03/2010</u>	Producing Method: <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain) _____			
Estimated Production Per 24 Hours	Oil Bbls. <u>20</u>	Gas Mcf <u>0</u>	Water Bbls. <u>13</u>	Gas-Oil Ratio <u>28</u>

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease (If vented, Submit ACO-18.)	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input checked="" type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled (Submit ACO-5) <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: <u>4090-4094</u>
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Form	ACO1 - Well Completion
Operator	Grand Mesa Operating Company
Well Name	G. Andersen 2-26
Doc ID	1047231

Tops

Stone Corral	2508	+487
Bs/Stone Corral	2530	+465
Heebner	3973	-978
Lansing	4012	-1017
Muncie Creek	4160	-1165
Stark	4242	-1247
Marmaton	4341	-1346
Little Osage	4474	-1479
Johnson	4572	-1577
Morrow	4598	-1603
Mississippian	4631	-1636
LTD	4660	



*Mark Parkinson, Governor
Thomas E. Wright, Chairman
Joseph F. Harkins, Commissioner
Ward Loyd, Commissioner*

November 19, 2010

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

Re: ACO1
API 15-109-20950-00-00
G. Andersen 2-26
SW/4 Sec.26-12S-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

GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

GRAND MESA OPERATING CO.

WELL: G. ANDERSEN #2-26

LOC.: NE-SE-SE-SW
 356' FSL & 2585' FWL
 SEC. 26-12-32W
 LOGAN COUNTY, KANSAS
 API: 15-109-20950-00-00

DRILLING CONTR.: MURFIN RIG #24
 SPUD: 9-30-10 COMP: 10-10-10
 MUD UP: 3500' TYPE MUD: CHEM.
 DRILL TIME: 3600-RTD
 RTD: 4664' LTD: 4660'
 SAMPLES SAVED: 3800'-RTD
 GEOLOGIST: ROBERT J. PETERSEN

ELEVATION

KB: 2995'
 GL: 2990'
 LOG MEASURED
 FROM: KB

SURFACE CASING

23# 8 5/8" Set @ 220' KB.
 Cem. w/165sx Comm.,
 3% CC, 2% Gel.

PRODUCTION CASING

5 1/2 15.50# casing set
 @4653 w/175SX

WELL LOG SURVEYS

DIL/CDL w/micro

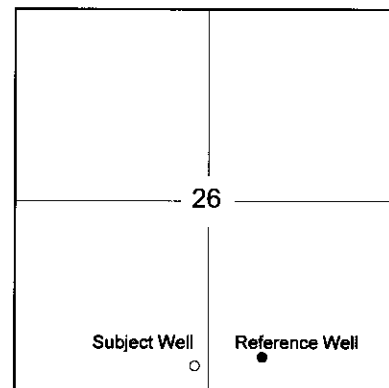
FORMATION TOPS

Formation	Sample Top	Datum	Elec. Log	Datum	Pos.
Stone Corral	2511	484	2508	487	-6
Bs/Stone Corral	2534	461	2530	465	-4
Heebner	3979	-984	3973	-978	-4
Lansing	4018	-1023	4012	-1017	-4
Muncie Creek	4165	-1170	4160	-1165	-4
Stark	4247	-1252	4242	-1247	-3
Marmaton	4344	-1349	4341	-1346	-5
Little Osage	4479	-1484	4474	-1479	-6
Johnson	4577	-1582	4572	-1577	-5
Morrow	4597	-1602	4598	-1603	-6
Mississippian	4629	-1634	4631	-1636	-23

REFERENCE WELL:

GRAND MESA
 G. ANDERSEN #1-26
 26-12-32W
 480' FSL & 2010' FEL
 EL. 2997KB

REMARKS AND RECOMMENDATIONS



DAILY REPORT

@7:00 A.M.

09/30/10: MIRU: Spud @ 2:15 p.m.
 10/01/10: 600' drilling
 10/02/10 : 2485' drilling
 10/03/10: 3612' bit trip
 10/04/10: 4029' circulating



DRILL STEM TEST REPORT

Prepared For: **GRAND MESA OPERATING COMPANY**

1700 N WATERFRONT PKWY BLDG 600
WICHITA KS 67206

ATTN: BOB PETERSON

26-12S-32W LOGAN

G ANDERSEN 2-26

Start Date: 2010.10.04 @ 23:00:00

End Date: 2010.10.05 @ 06:16:00

Job Ticket #: 1029 DST #: 1

Eagle Testers LLC.

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

620-617-7548

Printed: 2010.10.05 @ 00:06:50



DRILL STEM TEST REPORT

GRAND MESA OPERATING COMPANY
 1700 N WATERFRONT PKWY BLDG 600
 WICHITA KS 67206
 ATTN: BOB PETERSON

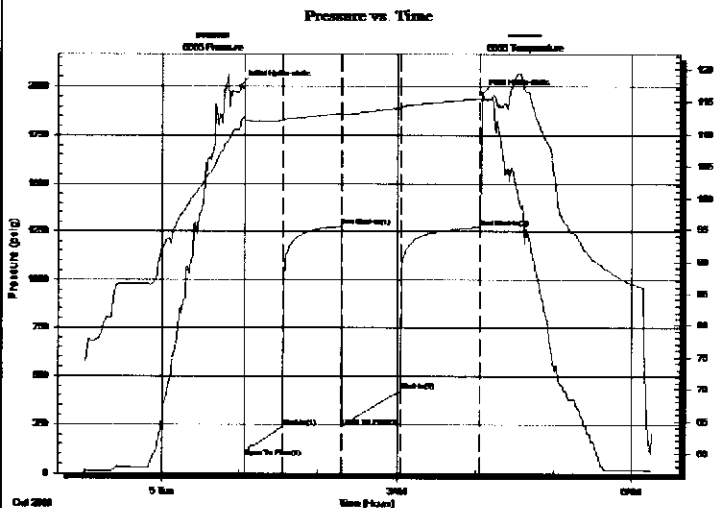
G ANDERSEN 2-26
26-12S-32W LOGAN
 Job Ticket: 1029 **DST#: 1**
 Test Start: 2010.10.04 @ 23:00:00

GENERAL INFORMATION:

Formation: **LKC -C-**
 Deviated: **No** Whipstock: **ft (KB)**
 Time Tool Opened: 01:04:00
 Time Test Ended: 06:16:00
 Test Type: **Conventional Bottom Hole (Initial)**
 Tester: **DAVID NICHOLS**
 Unit No: **15**
 Interval: **4037.00 ft (KB) To 4075.00 ft (KB) (TVD)**
 Reference Elevations: **2995.00 ft (KB)**
2990.00 ft (CF)
 Total Depth: **4075.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches** Hole Condition: **Fair**
 KB to GR/CF: **5.00 ft**

Serial #: 6666 **Inside**
 Press@RunDepth: **421.41 psig @ 4071.00 ft (KB)** Capacity: **5000.00 psig**
 Start Date: **2010.10.04** End Date: **2010.10.05** Last Calib.: **2010.10.04**
 Start Time: **23:00:00** End Time: **06:16:00** Time On Btm: **2010.10.05 @ 01:01:00**
 Time Off Btm: **2010.10.05 @ 04:04:30**

TEST COMMENT: 30-INITIAL OPENING FAIR BLOW BOTTOM BUCKET IN 9 1/2 MINS
 45-INITIAL SHUT IN NO BLOW BACK
 45-FINAL OPENING FAIR BLOW BOTTOM BUCKET IN 13 MINS
 60-FINAL SHUT IN NO BLOW BACK



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2003.57	111.86	Initial Hydro-static
3	83.13	112.22	Open To Flow (1)
32	235.96	112.05	Shut-In(1)
77	1275.23	113.19	End Shut-In(1)
78	240.89	112.99	Open To Flow (2)
122	421.41	114.03	Shut-In(2)
183	1269.69	115.45	End Shut-In(2)
184	1965.96	115.02	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
180.00	MUD WITH A SHOW OF WATER 95% MUD 5% WATER	1.47
180.00	MUD CUT WATER 40% MUD 60% WATER	2.63
370.00	WATER TRACE OF MUD 5% MUD 95% WATER	5.41
60.00	MUDDY WATER 20% MUD 80% WATER	0.88
60.00	MUD CUT WATER 50% MUD 50% WATER	0.88

Gas Rates

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



DRILL STEM TEST REPORT

GRAND MESA OPERATING COMPANY
 1700 N WATERFRONT PKWY BLDG 600
 WICHITA KS 67206
 ATTN: BOB PETERSON

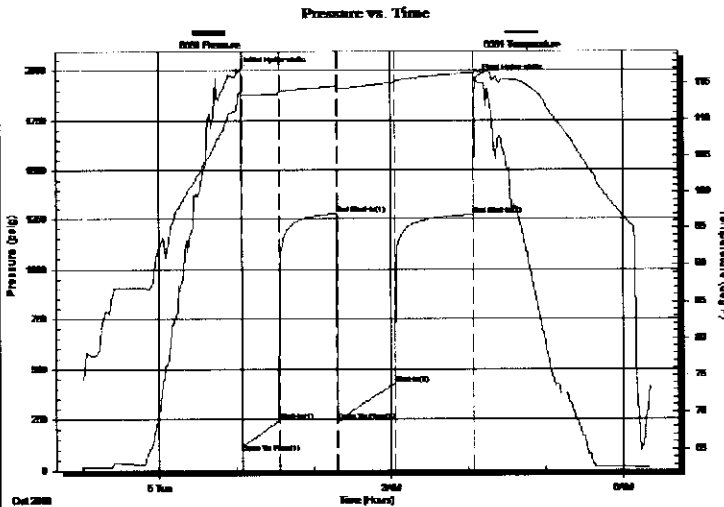
G ANDERSEN 2-26
26-12S-32W LOGAN
 Job Ticket: 1029 **DST#: 1**
 Test Start: 2010.10.04 @ 23:00:00

GENERAL INFORMATION:

Formation: **LKC -C-**
 Deviated: **No** Whipstock: **ft (KB)**
 Time Tool Opened: 01:04:00
 Time Test Ended: 06:16:00
 Test Type: **Conventional Bottom Hole (Initial)**
 Tester: **DAVID NICHOLS**
 Unit No: **15**
 Interval: **4037.00 ft (KB) To 4075.00 ft (KB) (TVD)**
 Reference Elevations: **2995.00 ft (KB)**
2990.00 ft (CF)
 Total Depth: **4075.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches** Hole Condition: **Fair**
 KB to GR/CF: **5.00 ft**

Serial #: 6651 **Outside**
 Press@RunDepth: **1270.13 psig @ 4072.00 ft (KB)** Capacity: **5000.00 psig**
 Start Date: **2010.10.04** End Date: **2010.10.05** Last Calib.: **2010.10.04**
 Start Time: **23:00:00** End Time: **06:21:30** Time On Btm: **2010.10.05 @ 01:01:30**
 Time Off Btm: **2010.10.05 @ 04:05:30**

TEST COMMENT: 30-INITIAL OPENING FAIR BLOW BOTTOM BUCKET IN 9 1/2 MINS
 45-INITIAL SHUT IN NO BLOW BACK
 45-FINAL OPENING FAIR BLOW BOTTOM BUCKET IN 13 MINS
 60-FINAL SHUT IN NO BLOW BACK



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1998.83	112.81	Initial Hydro-static
3	88.73	113.37	Open To Flow (1)
32	242.96	113.62	Shut-In(1)
76	1275.83	114.62	End Shut-In(1)
77	239.33	114.35	Open To Flow (2)
122	424.75	115.14	Shut-In(2)
182	1270.13	116.45	End Shut-In(2)
184	1958.00	116.66	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
180.00	MUD WITH A SHOW OF WATER 95% MUD 5% WATER	1.47
180.00	MUD CUT WATER 40% MUD 60% WATER	2.63
370.00	WATER TRACE OF MUD 5% MUD 95% WATER	5.41
60.00	MUDDY WATER 20% MUD 80% WATER	0.88
60.00	MUD CUT WATER 50% MUD 50% WATER	0.88

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

GRAND MESA OPERATING COMPANY
 1700 N WATERFRONT PKWY BLDG 600
 WICHITA KS 67206
 ATTN: BOB PETERSON

G ANDERSEN 2-26
26-12S-32W LOGAN
 Job Ticket: 1029 DST#: 1
 Test Start: 2010.10.04 @ 23:00:00

Tool Information

Drill Pipe:	Length: 3896.00 ft	Diameter: 3.88 inches	Volume: 56.98 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: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 57.57 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	2.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	4037.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	38.00 ft			
Tool Length:	61.00 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			4019.00	
HYD S.I. Tool	5.00			4024.00	
jars	6.00			4030.00	
safty joint	2.00			4032.00	
TRAVEL COLER	2.00			4034.00	
Packer	3.00			4037.00	23.00 Bottom Of Top Packer
travel collar	2.00			4039.00	38.00 Tool Interval
Packer	3.00			4042.00	
Anchor	28.00			4070.00	
Recorder	1.00	6666	Inside	4071.00	
Recorder	1.00	6651	Outside	4072.00	
BULL PLUG	3.00			4075.00	1000060.00 Bottom Packers & Anchor

Total Tool Length: 61.00



DRILL STEM TEST REPORT

FLUID SUMMARY

GRAND MESA OPERATING COMPANY
1700 N WATERFRONT PKWY BLDG 600
WICHITA KS 67206
ATTN: BOB PETERSON

G ANDERSEN 2-26
26-12S-32W LOGAN
Job Ticket: 1029 DST#: 1
Test Start: 2010.10.04 @ 23:00:00

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: 60.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.20 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 900.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

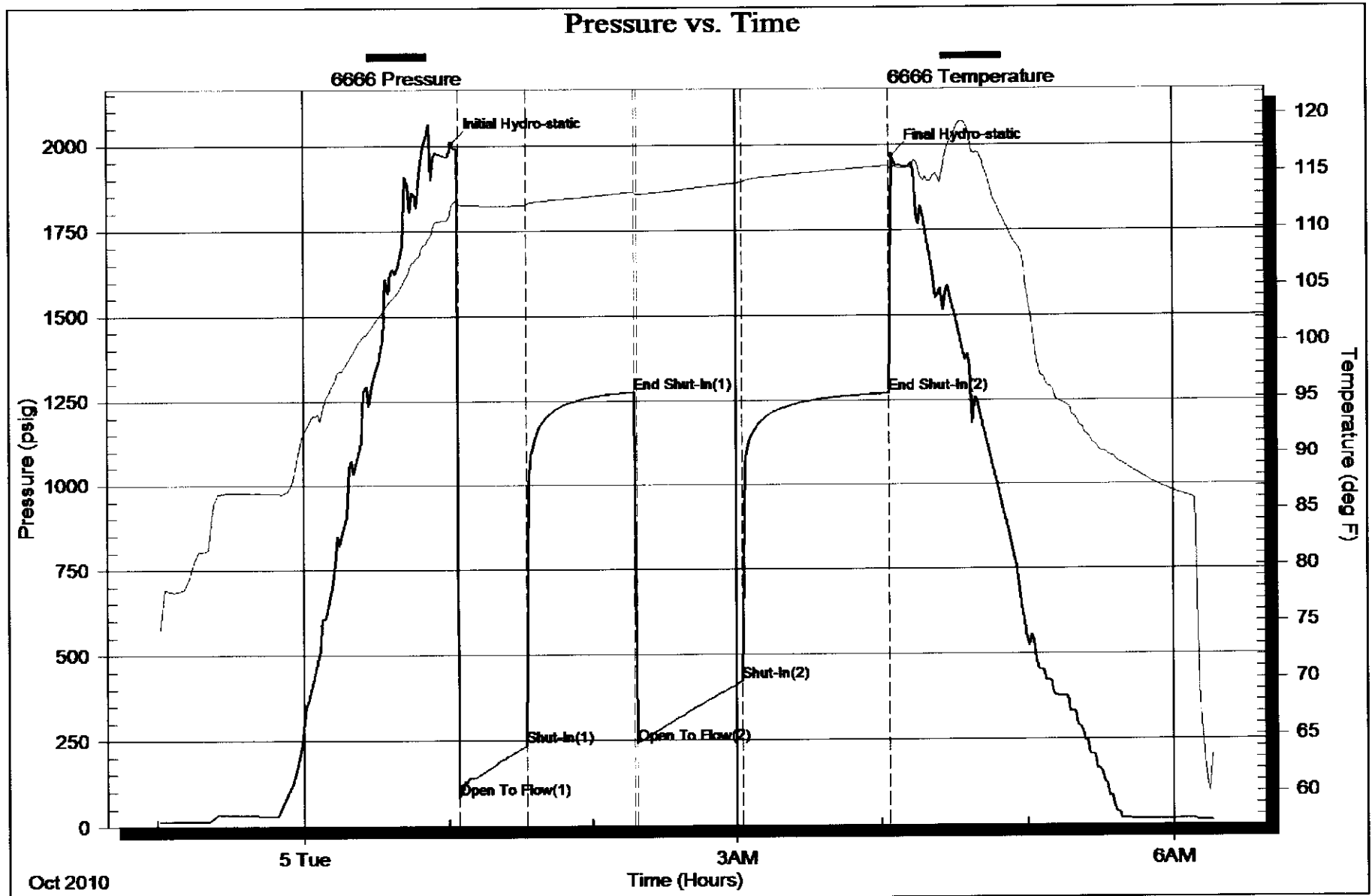
Length ft	Description	Volume bbl
180.00	MUD WITH A SHOW OF WATER 95%MUD 5%	1.468
180.00	MUD CUT WATER 40%MUD60%WATER	2.632
370.00	WATER TRACE OF MUD 5%MUD95%WATER	5.411
60.00	MUDDY WATER 20%M80%WATER	0.877
60.00	MUD CUT WATER 50%MUD50%WATER	0.877

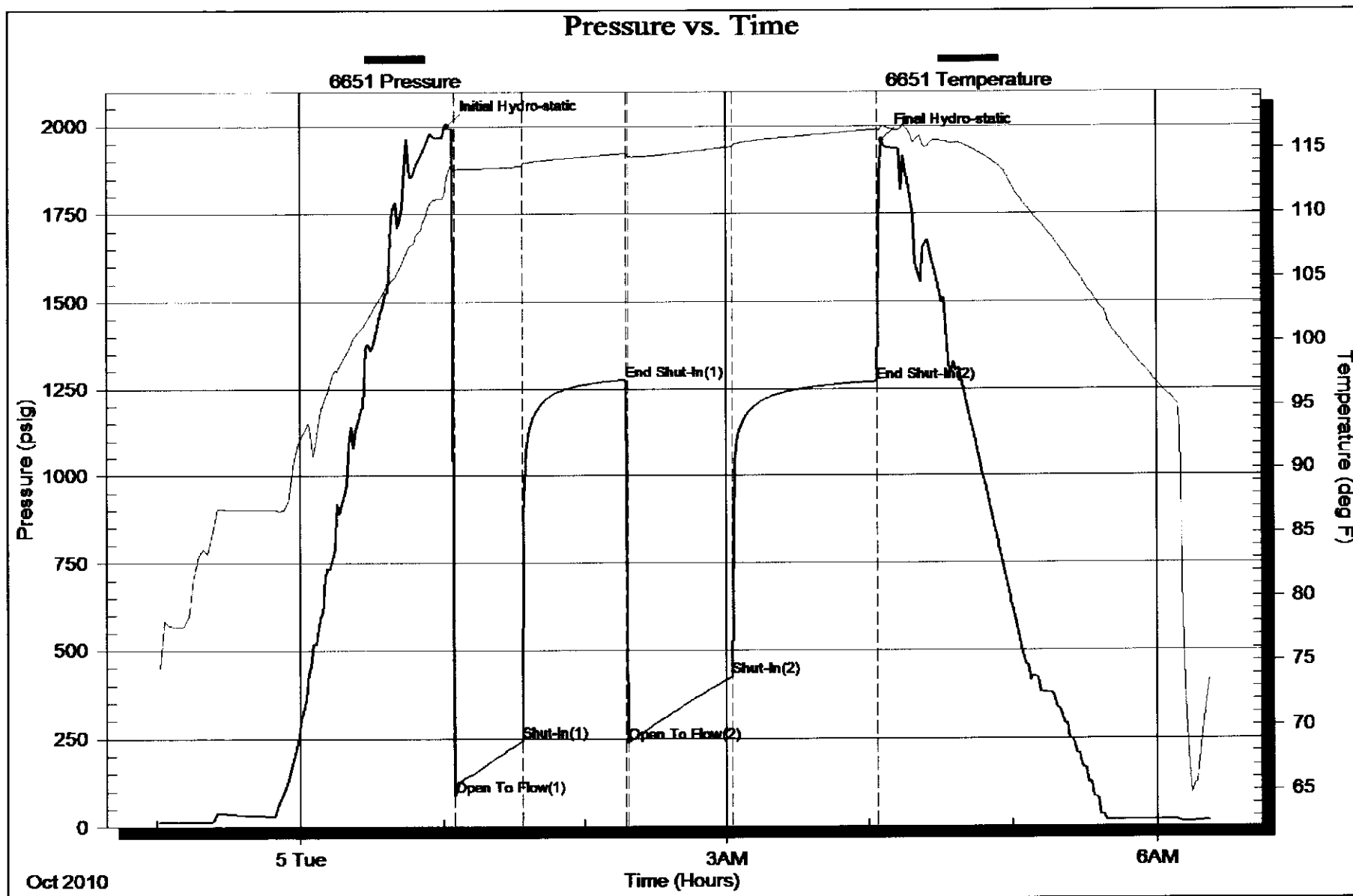
Total Length: 850.00 ft Total Volume: 11.265 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: RECOVERY CHLORIDES 46,000







DRILL STEM TEST REPORT

Prepared For: **GRAND MESA OPERATING COMPANY**

1700 N WATERFRONT PKWY BLDG 600
WICHITA KS 67206

ATTN: BOB PETERSON

26-12S-32W LOGAN

G ANDERSEN 2-26

Start Date: 2010.10.05 @ 16:00:00

End Date: 2010.10.06 @ 00:26:00

Job Ticket #: 1030 DST #: 2

Eagle Testers LLC.

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

620-617-7548

Printed: 2010.10.05 @ 16:29:52



DRILL STEM TEST REPORT

GRAND MESA OPERATING COMPANY
 1700 N WATERFRONT PKWY BLDG 600
 WICHITA KS 67206
 ATTN: BOB PETERSON

G ANDERSEN 2-26
26-12S-32W LOGAN
 Job Ticket: 1030 **DST#: 2**
 Test Start: 2010.10.05 @ 16:00:00

GENERAL INFORMATION:

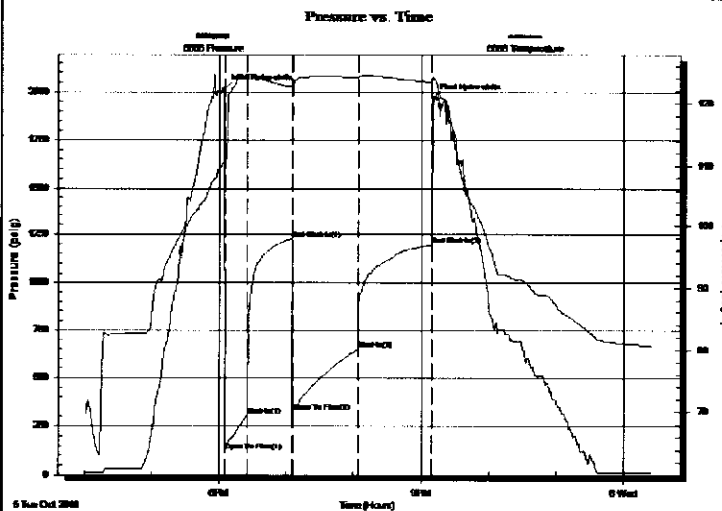
Formation: **LKC -E-**
 Deviated: **No** Whipstock: **ft (KB)**
 Time Tool Opened: 18:05:30
 Time Test Ended: 00:26:00
 Test Type: **Conventional Bottom Hole (Initial)**
 Tester: **DAVID NICHOLS**
 Unit No: **15**
 Interval: **4080.00 ft (KB) To 4107.00 ft (KB) (TVD)**
 Reference Elevations: **2995.00 ft (KB)**
2990.00 ft (CF)
 Total Depth: **4107.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches** Hole Condition: **Fair**
 KB to GR/CF: **5.00 ft**

Serial #: 6666

Inside

Press@RunDepth: **652.16 psig @ 4103.00 ft (KB)** Capacity: **5000.00 psig**
 Start Date: **2010.10.05** End Date: **2010.10.06** Last Calib.: **2010.10.05**
 Start Time: **16:00:00** End Time: **00:26:00** Time On Btm: **2010.10.05 @ 18:04:30**
 Time Off Btm: **2010.10.05 @ 21:10:30**

TEST COMMENT: 30-INITIAL OPENING GOOD BLOW BOTTOM BUCKET IN 2 MINS
 40-INITIAL SHUT IN NO BLOW BACK
 60-FINAL OPENING GOOD BLOW BOTTOM BUCKET IN 4 MINS
 60-FINAL SHUT IN VERY WEAK SURFACE BLOW



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2014.84	110.63	Initial Hydro-static
1	123.89	110.41	Open To Flow (1)
21	303.59	124.45	Shut-In(1)
61	1224.83	122.68	End Shut-In(1)
62	326.54	122.70	Open To Flow (2)
120	652.16	124.20	Shut-In(2)
185	1194.46	123.36	End Shut-In(2)
186	1970.22	124.13	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	WATER CUT GASSY OIL 15% GAS 55% CO.59	0.59
0.00	30% WATER	0.00
240.00	GASSY OIL WITH A TRACE OF WATER	3.51
0.00	5% GAS 85% OIL 10% WATER	0.00
480.00	WATER CUT GASSY OIL	7.02
0.00	5% GAS 60% OIL 35% WATER	0.00

Gas Rates

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



DRILL STEM TEST REPORT

GRAND MESA OPERATING COMPANY
 1700 N WATERFRONT PKWY BLDG 600
 WICHITA KS 67206
 ATTN: BOB PETERSON

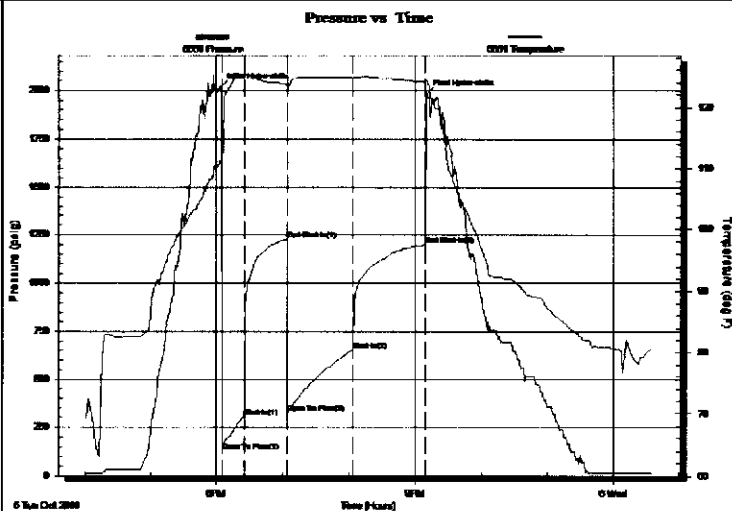
G ANDERSEN 2-26
26-12S-32W LOGAN
 Job Ticket: 1030 **DST#: 2**
 Test Start: 2010.10.05 @ 16:00:00

GENERAL INFORMATION:

Formation: **LKC -E-**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 18:05:30
 Time Test Ended: 00:26:00
 Interval: **4080.00 ft (KB) To 4107.00 ft (KB) (TVD)**
 Total Depth: 4107.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: DAVID NICHOLS
 Unit No: 15
 Reference Elevations: 2995.00 ft (KB)
 2990.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 6651 Outside
 Press@RunDepth: 1195.94 psig @ 4104.00 ft (KB) Capacity: 5000.00 psig
 Start Date: 2010.10.05 End Date: 2010.10.06 Last Calib.: 2010.10.05
 Start Time: 16:00:00 End Time: 00:36:00 Time On Btm: 2010.10.05 @ 18:04:00
 Time Off Btm: 2010.10.05 @ 21:10:30

TEST COMMENT: 30-INITIAL OPENING GOOD BLOW BOTTOM BUCKET IN 2 MINS
 40-INITIAL SHUT IN NO BLOW BACK
 60-FINAL OPENING GOOD BLOW BOTTOM BUCKET IN 4 MINS
 60-FINAL SHUT IN VERY WEAK SURFACE BLOW



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2017.13	111.40	Initial Hydro-static
2	130.08	111.04	Open To Flow (1)
21	303.33	125.00	Shut-In(1)
61	1225.68	123.60	End Shut-In(1)
61	323.40	122.95	Open To Flow (2)
120	654.35	124.67	Shut-In(2)
186	1195.94	124.01	End Shut-In(2)
187	1978.46	124.25	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	WATER CUT GASSY OIL 15% GAS 55% CO.59	
0.00	30% WATER	0.00
240.00	GASSY OIL WITH A TRACE OF WATER	3.51
0.00	5% GAS 85% OIL 10% WATER	0.00
480.00	WATER CUT GASSY OIL	7.02
0.00	5% GAS 60% OIL 35% WATER	0.00

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

GRAND MESA OPERATING COMPANY
 1700 N WATERFRONT PKWY BLDG 600
 WICHITA KS 67206
 ATTN: BOB PETERSON

G ANDERSEN 2-26
26-12S-32W LOGAN
 Job Ticket: 1030 **DST#: 2**
 Test Start: 2010.10.05 @ 16:00:00

Tool Information

Drill Pipe:	Length: 3940.00 ft	Diameter: 3.88 inches	Volume: 57.62 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: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 60000.00 lb
		Total Volume: 58.21 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	3.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	4080.00 ft			Final 56000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	27.00 ft			
Tool Length:	50.00 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			4062.00	
HYD S.I. Tool	5.00			4067.00	
jars	6.00			4073.00	
safty joint	2.00			4075.00	
TRAVEL COLER	2.00			4077.00	
Packer	3.00			4080.00	23.00 Bottom Of Top Packer
travel collar	2.00			4082.00	27.00 Tool Interval
Packer	3.00			4085.00	
Anchor	17.00			4102.00	
Recorder	1.00	6666	Inside	4103.00	
Recorder	1.00	6651	Outside	4104.00	
BULL PLUG	3.00			4107.00	1000049.00 Bottom Packers & Anchor

Total Tool Length: 50.00



DRILL STEM TEST REPORT

FLUID SUMMARY

GRAND MESA OPERATING COMPANY
1700 N WATERFRONT PKWY BLDG 600
WICHITA KS 67206
ATTN: BOB PETERSON

G ANDERSEN 2-26
26-12S-32W LOGAN
Job Ticket: 1030 DST#: 2
Test Start: 2010.10.05 @ 16:00:00

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 32 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: ppm
Viscosity: 57.00 sec/qt	Cushion Volume: bbl	
Water Loss: 7.99 in ³	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 1800.00 ppm		
Filter Cake: inches		

Recovery Information

Recovery Table

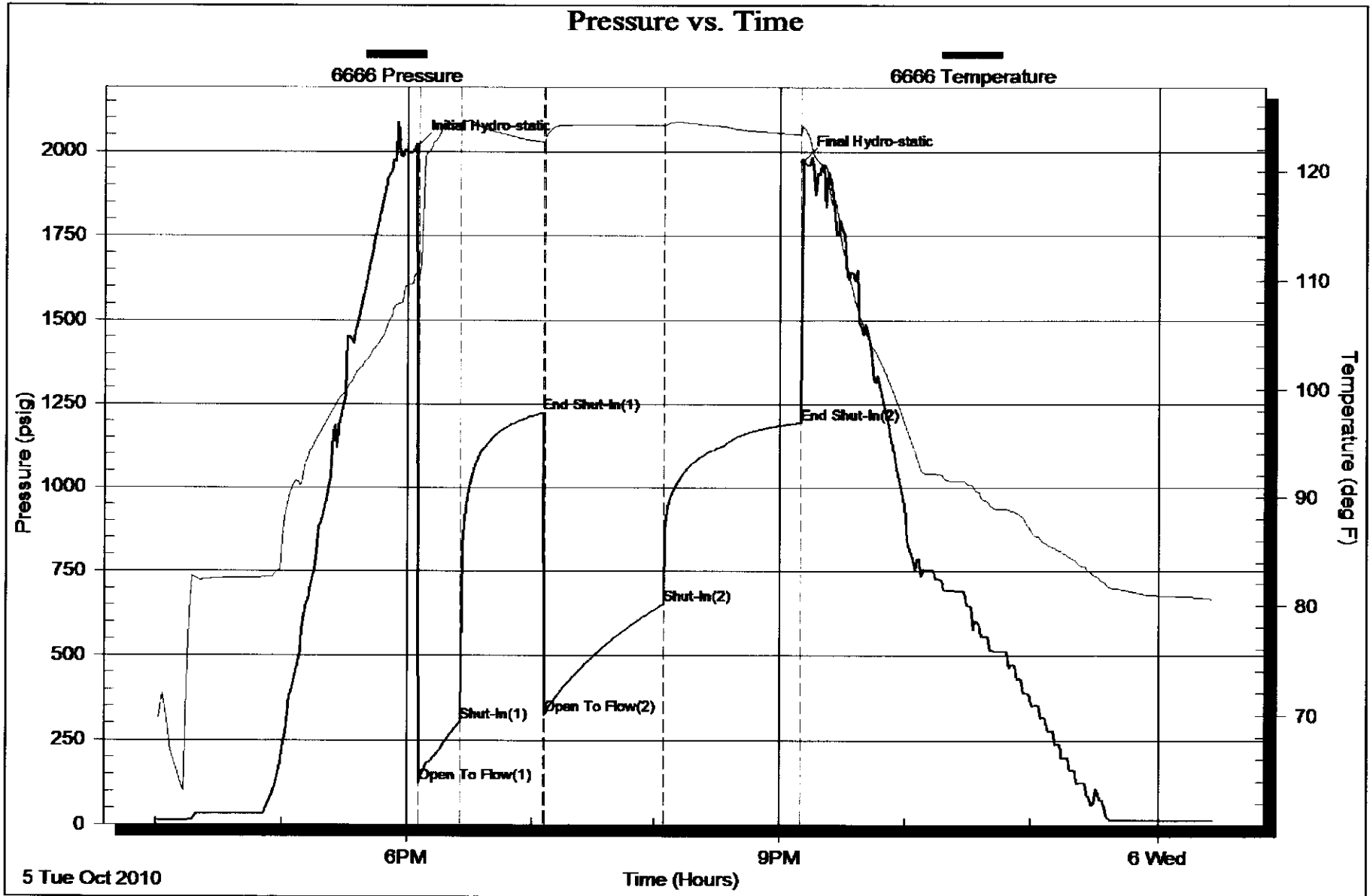
Length ft	Description	Volume bbl
120.00	WATER CUT GASSY OIL 15%GAS 55%OIL	0.590
0.00	30%WATER	0.000
240.00	GASSY OIL WITH A TRACE OF WATER	3.510
0.00	5%GAS 85%OIL 10%WATER	0.000
480.00	WATER CUT GASSY OIL	7.020
0.00	5%GAS 60%OIL 35%WATER	0.000
120.00	OIL CUT WATER 40%OIL 60%WATER	1.755
420.00	CLEAN WATER 100%WATER	6.142

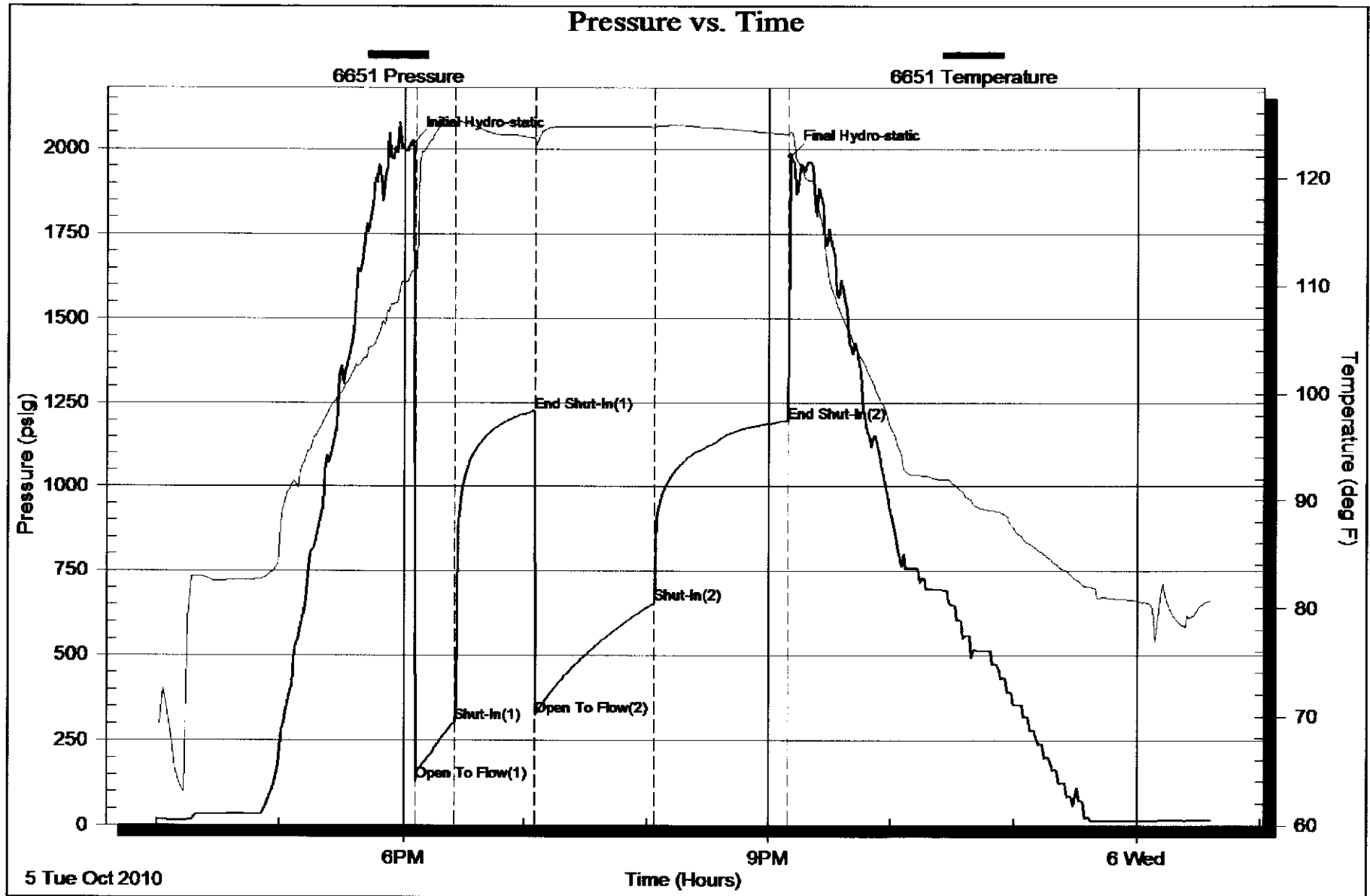
Total Length: 1380.00 ft Total Volume: 19.017 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: RECOVERY CHLORIDES 46,0000







DRILL STEM TEST REPORT

Prepared For: **GRAND MESA OPERATING COMPANY**

1700 N WATERFRONT PKWY BLDG 600
WICHITA KS 67206

ATTN: BOB PETERSON

26-12S-32W LOGAN

G ANDERSEN 2-26

Start Date: 2010.10.06 @ 04:00:00

End Date: 2010.10.06 @ 08:51:30

Job Ticket #: 1031 DST #: 3

Eagle Testers LLC.

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

620-617-7548

Printed: 2010.10.06 @ 04:12:37



DRILL STEM TEST REPORT

GRAND MESA OPERATING COMPANY
 1700 N WATERFRONT PKWY BLDG 600
 WICHITA KS 67206
 ATTN: BOB PETERSON

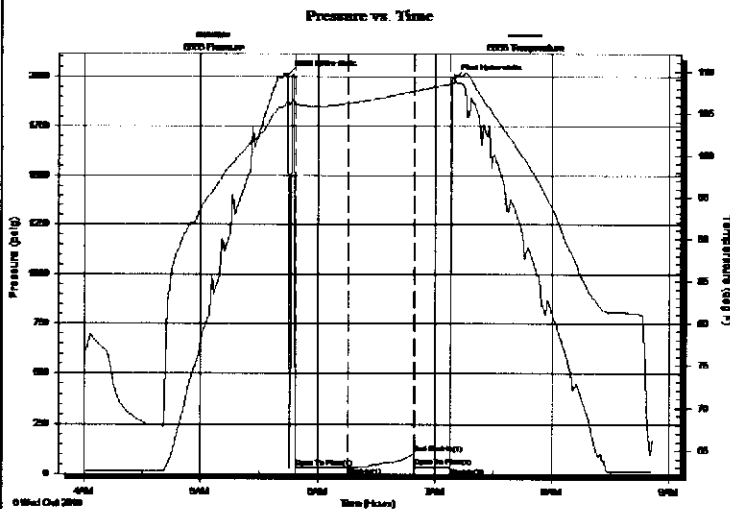
G ANDERSEN 2-26
26-12S-32W LOGAN
 Job Ticket: 1031 **DST#: 3**
 Test Start: 2010.10.06 @ 04:00:00

GENERAL INFORMATION:

Formation: **LKC -F-**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 05:48:30
 Time Test Ended: 08:51:30
 Test Type: Conventional Bottom Hole (Initial)
 Tester: DAVID NICHOLS
 Unit No: 15 70 MRT SCOTT CIT
 Interval: **4108.00 ft (KB) To 4121.00 ft (KB) (TVD)**
 Total Depth: 4121.00 ft (KB) (TVD)
 Reference Elevations: 2995.00 ft (KB)
 2990.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 KB to GR/CF: 5.00 ft

Serial #: 6666 **Inside**
 Press@RunDepth: 35.28 psig @ 4117.00 ft (KB) Capacity: 5000.00 psig
 Start Date: 2010.10.06 End Date: 2010.10.06 Last Calib.: 2010.10.06
 Start Time: 04:00:00 End Time: 08:51:30 Time On Btm: 2010.10.06 @ 05:44:30
 Time Off Btm: 2010.10.06 @ 07:10:00

TEST COMMENT: 30-INITIAL OPENING VERY WEAK SURFACE BLOW DIED AFTER 3 MINS
 30-INITIAL SHUT IN NO BLOW BACK
 10-FINAL OPENING VERY WEAK SURFACE BLOW DIED AFTER 2 MINS



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2008.75	106.38	Initial Hydro-static
4	34.31	106.11	Open To Flow (1)
32	35.28	106.16	Shut-In(1)
65	101.36	107.64	End Shut-In(1)
65	36.74	107.63	Open To Flow (2)
83	35.98	108.53	Shut-In(2)
86	1990.01	109.70	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1.00	MJD 100% MJD	0.00

Gas Rates

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



DRILL STEM TEST REPORT

GRAND MESA OPERATING COMPANY
 1700 N WATERFRONT PKWY BLDG 600
 WICHITA KS 67206
 ATTN: BOB PETERSON

G ANDERSEN 2-26
26-12S-32W LOGAN
 Job Ticket: 1031 **DST#: 3**
 Test Start: 2010.10.06 @ 04:00:00

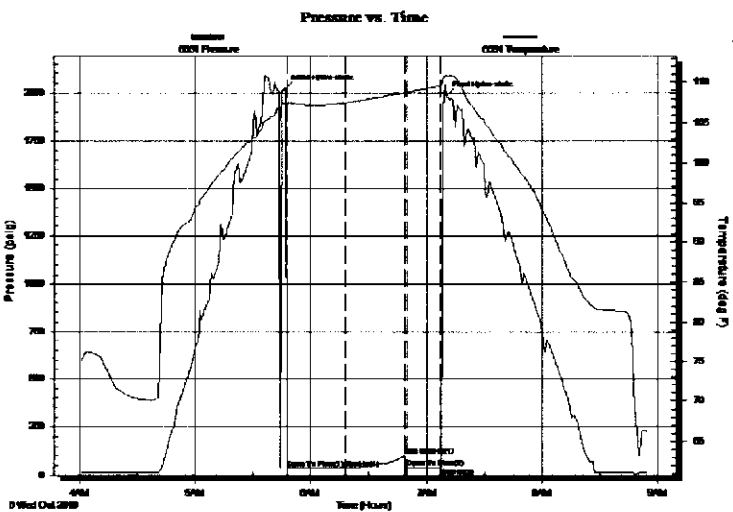
GENERAL INFORMATION:

Formation: **LKC -F-**
 Deviated: **No** Whipstock: **ft (KB)** Test Type: **Conventional Bottom Hole (Initial)**
 Time Tool Opened: **05:48:30** Tester: **DAVID NICHOLS**
 Time Test Ended: **08:51:30** Unit No: **15 70 M RT SCOTT CT**

Interval: **4108.00 ft (KB) To 4121.00 ft (KB) (TVD)** Reference Elevations: **2995.00 ft (KB)**
 Total Depth: **4121.00 ft (KB) (TVD)** **2990.00 ft (CF)**
 Hole Diameter: **7.88 inches** Hole Condition: **Fair** KB to GR/CF: **5.00 ft**

Serial #: 6651 **Outside**
 Press@RunDepth: **101.11 psig @ 4118.00 ft (KB)** Capacity: **5000.00 psig**
 Start Date: **2010.10.06** End Date: **2010.10.06** Last Calib.: **2010.10.06**
 Start Time: **04:00:00** End Time: **08:55:30** Time On Btm: **2010.10.06 @ 05:47:00**
 Time Off Btm: **2010.10.06 @ 07:10:00**

TEST COMMENT: 30-INITIAL OPENING VERY WEAK SURFACE BLOW DIED AFTER 3 MINS
 30-INITIAL SHUT IN NO BLOW BACK
 10-FINAL OPENING VERY WEAK SURFACE BLOW DIED AFTER 2 MINS



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2016.76	107.43	Initial Hydro-static
1	37.55	107.28	Open To Flow (1)
31	37.79	107.50	Shut-In(1)
62	101.11	108.76	End Shut-In(1)
63	38.14	108.78	Open To Flow (2)
80	38.15	109.59	Shut-In(2)
83	1984.39	110.80	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1.00	MUD 100% MUD	0.00

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

GRAND MESA OPERATING COMPANY
 1700 N WATERFRONT PKWY BLDG 600
 WICHITA KS 67206
 ATTN: BOB PETERSON

G ANDERSEN 2-26
26-12S-32W LOGAN
 Job Ticket: 1031 **DST#: 3**
 Test Start: 2010.10.06 @ 04:00:00

Tool Information

Drill Pipe:	Length: 3965.00 ft	Diameter: 3.88 inches	Volume: 57.99 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: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 65000.00 lb
		Total Volume: 58.58 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	0.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	4108.00 ft			Final 48000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	13.00 ft			
Tool Length:	36.00 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			4090.00	
HYD S.I. Tool	5.00			4095.00	
jars	6.00			4101.00	
safty joint	2.00			4103.00	
TRAVEL COLER	2.00			4105.00	
Packer	3.00			4108.00	23.00 Bottom Of Top Packer
travel collar	2.00			4110.00	13.00 Tool Interval
Packer	3.00			4113.00	
Anchor	3.00			4116.00	
Recorder	1.00	6666	Inside	4117.00	
Recorder	1.00	6651	Outside	4118.00	
BULL PLUG	3.00			4121.00	1000035.00 Bottom Packers & Anchor

Total Tool Length: 36.00



DRILL STEM TEST REPORT

FLUID SUMMARY

GRAND MESA OPERATING COMPANY
1700 N WATERFRONT PKWY BLDG 600
WICHITA KS 67206
ATTN: BOB PETERSON

G ANDERSEN 2-26
26-12S-32W LOGAN
Job Ticket: 1031 DST#: 3
Test Start: 2010.10.06 @ 04:00:00

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:	57.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	8.00 in ³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	1800.00 ppm				
Filter Cake:	inches				

Recovery Information

Recovery Table

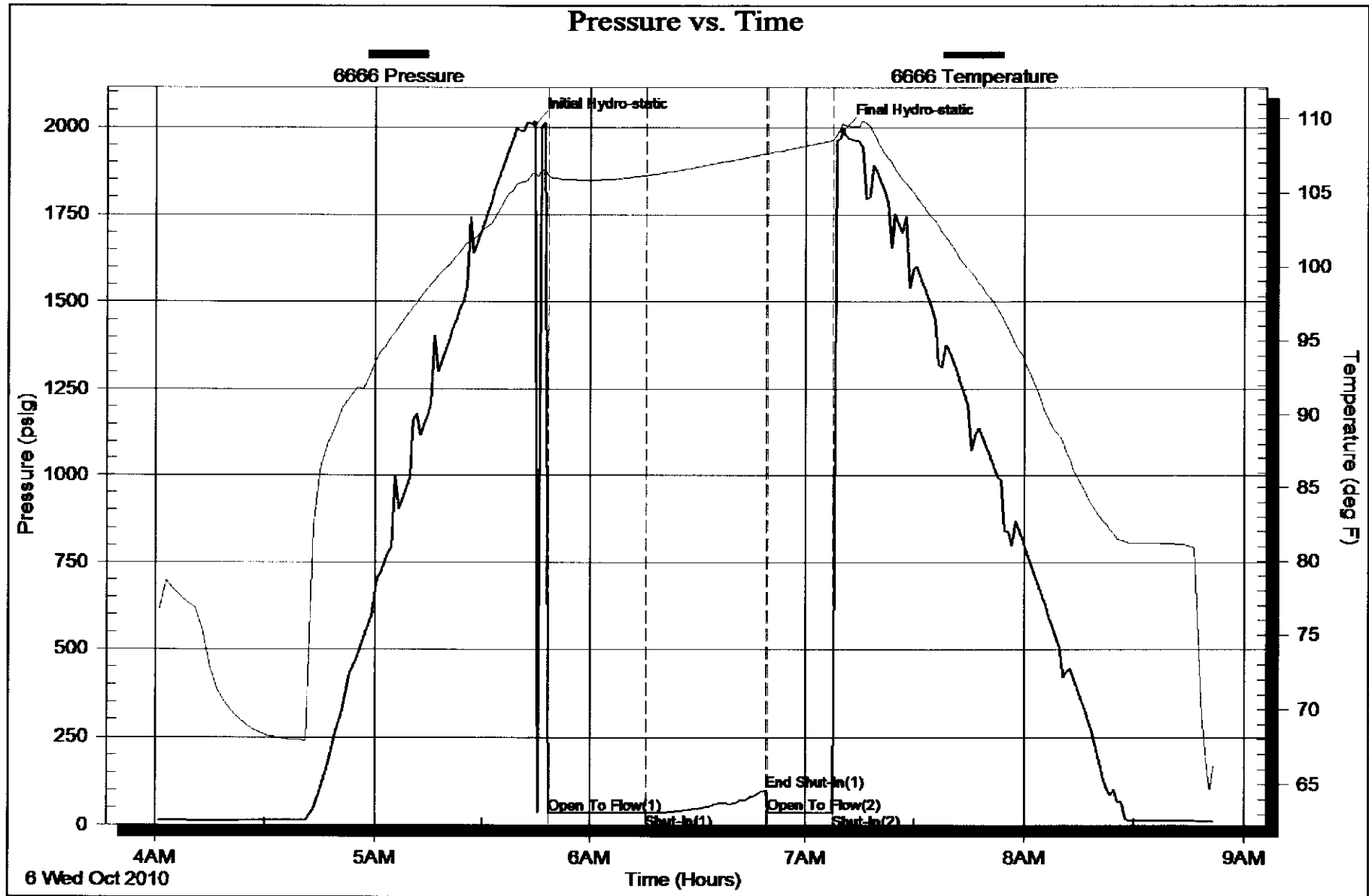
Length ft	Description	Volume bbl
1.00	MUD 100% MUD	0.005

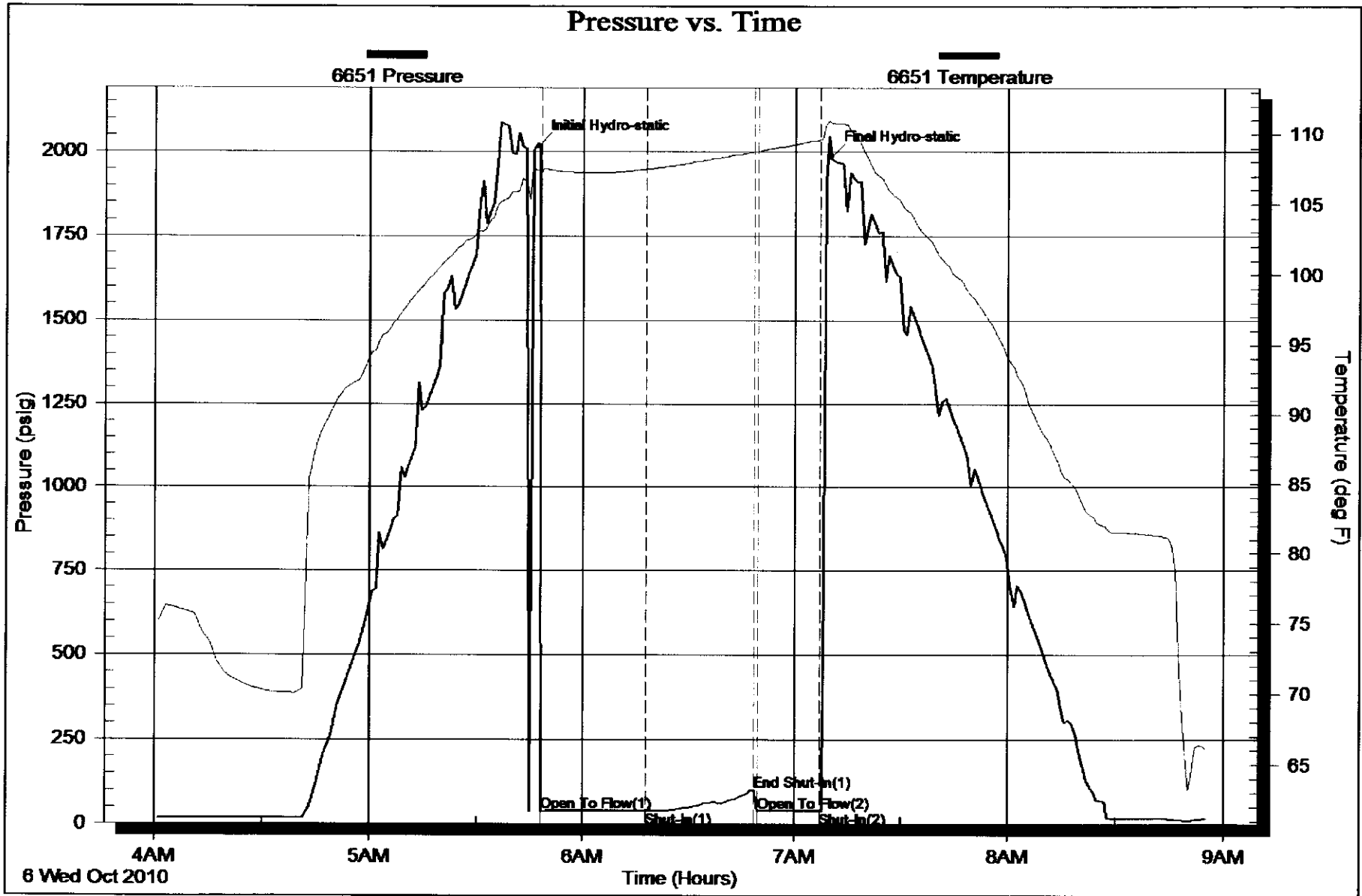
Total Length: 1.00 ft Total Volume: 0.005 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:







DRILL STEM TEST REPORT

Prepared For: **GRAND MESA OPERATING COMPANY**

1700 N WATERFRONT PKWY BLDG 600
WICHITA KS 67206

ATTN: BOB PETERSON

26-12S-32W LOGAN

G ANDERSEN 2-26

Start Date: 2010.10.06 @ 21:00:00

End Date: 2010.10.07 @ 01:57:30

Job Ticket #: 1032 DST #: 4

Eagle Testers LLC.

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

620-617-7548

Printed: 2010.10.06 @ 21:33:55



DRILL STEM TEST REPORT

GRAND MESA OPERATING COMPANY
 1700 N WATERFRONT PKWY BLDG 600
 WICHITA KS 67206
 ATTN: BOB PETERSON

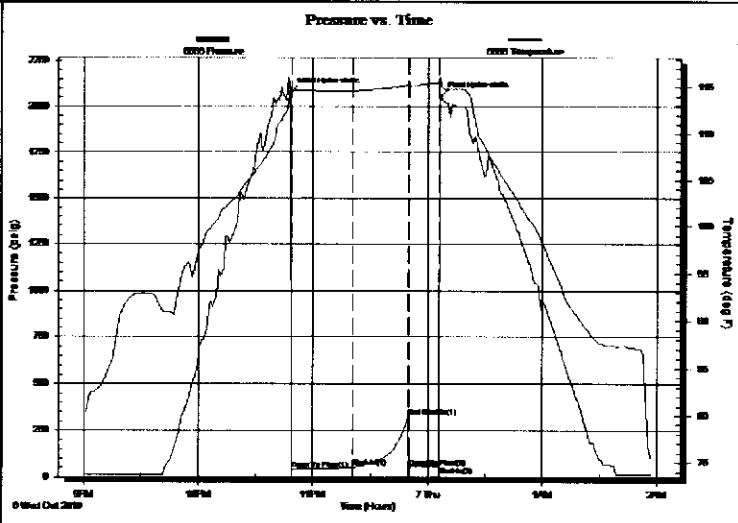
G ANDERSEN 2-26
26-12S-32W LOGAN
 Job Ticket: 1032 **DST#: 4**
 Test Start: 2010.10.06 @ 21:00:00

GENERAL INFORMATION:

Formation: **LKC -I-**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 22:49:00
 Time Test Ended: 01:57:30
 Test Type: Conventional Bottom Hole (Initial)
 Tester: DAVID NICHOLS
 Unit No: 15 70 MRT SCOTT QT
 Interval: **4192.00 ft (KB) To 4225.00 ft (KB) (TVD)**
 Total Depth: 4225.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Reference Elevations: 2995.00 ft (KB)
 2990.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 6666 Inside
 Press@RunDepth: 50.59 psig @ 4221.00 ft (KB) Capacity: 5000.00 psig
 Start Date: 2010.10.06 End Date: 2010.10.07 Last Calib.: 2010.10.06
 Start Time: 21:00:00 End Time: 01:57:30 Time On Btm: 2010.10.06 @ 22:48:30
 Time Off Btm: 2010.10.07 @ 00:07:00

TEST COMMENT: 30-INITIAL OPENING VERY WEAK SURFACE BLOW DIED AFTER 11 MINS
 30-INITIAL SHUT IN NO BLOW BACK
 20-FINAL OPENING NO BLOW



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2078.97	114.89	Initial Hydro-static
1	43.40	114.63	Open To Flow (1)
32	50.59	114.61	Shut-In(1)
62	323.95	115.20	End Shut-In(1)
62	54.33	115.16	Open To Flow (2)
78	56.63	115.52	Shut-In(2)
79	2054.48	115.26	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
5.00	MUD TRACE OF OIL 100%MUD	0.02

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



DRILL STEM TEST REPORT

GRAND MESA OPERATING COMPANY
 1700 N WATERFRONT PKWY BLDG 600
 WICHITA KS 67206
 ATTN: BOB PETERSON

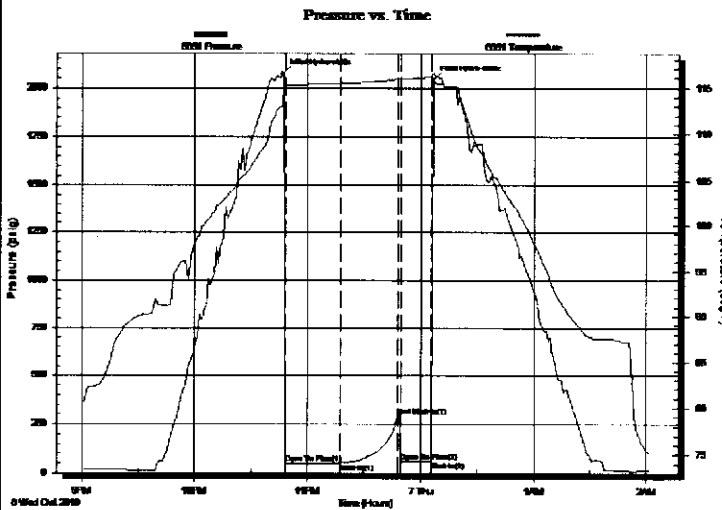
G ANDERSEN 2-26
26-12S-32W LOGAN
 Job Ticket: 1032 **DST#: 4**
 Test Start: 2010.10.06 @ 21:00:00

GENERAL INFORMATION:

Formation: **LKC -I-**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 22:49:00
 Time Test Ended: 01:57:30
 Test Type: Conventional Bottom Hole (Initial)
 Tester: DAVID NICHOLS
 Unit No: 15 70 MRT SCOTT CIT
 Interval: **4192.00 ft (KB) To 4225.00 ft (KB) (TVD)**
 Total Depth: 4225.00 ft (KB) (TVD)
 Reference Elevations: 2995.00 ft (KB)
 2990.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 KB to GR/CF: 5.00 ft

Serial #: 6651 Outside
 Press@RunDepth: 293.09 psig @ 4222.00 ft (KB) Capacity: 5000.00 psig
 Start Date: 2010.10.06 End Date: 2010.10.07 Last Calib.: 2010.10.06
 Start Time: 21:00:00 End Time: 02:02:30 Time On Btm: 2010.10.06 @ 22:46:30
 Time Off Btm: 2010.10.07 @ 00:06:30

TEST COMMENT: 30-INITIAL OPENING VERY WEAK SURFACE BLOW DIED AFTER 11 MINS
 30-INITIAL SHUT IN NO BLOW BACK
 20-FINAL OPENING NO BLOW



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2072.39	113.02	Initial Hydro-static
2	47.65	115.23	Open To Flow (1)
31	52.76	115.45	Shut-In(1)
62	293.09	115.93	End Shut-In(1)
63	58.19	115.89	Open To Flow (2)
79	59.76	116.17	Shut-In(2)
80	2043.39	116.60	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	MUD TRACE OF OIL 100%MUD	0.02

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

GRAND MESA OPERATING COMPANY
 1700 N WATERFRONT PKWY BLDG 600
 WICHITA KS 67206
 ATTN: BOB PETERSON

G ANDERSEN 2-26
26-12S-32W LOGAN
 Job Ticket: 1032 **DST#: 4**
 Test Start: 2010.10.06 @ 21:00:00

Tool Information

Drill Pipe:	Length: 4047.00 ft	Diameter: 3.88 inches	Volume: 59.18 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: 125.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: 59.79 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	3.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	4192.00 ft			Final 48000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	33.00 ft			
Tool Length:	56.00 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			4174.00	
HYD S.I. Tool	5.00			4179.00	
jars	6.00			4185.00	
safty joint	2.00			4187.00	
TRAVEL COLER	2.00			4189.00	
Packer	3.00			4192.00	23.00 Bottom Of Top Packer
travel collar	2.00			4194.00	33.00 Tool Interval
Packer	3.00			4197.00	
Anchor	23.00			4220.00	
Recorder	1.00	6666	Inside	4221.00	
Recorder	1.00	6651	Outside	4222.00	
BULL PLUG	3.00			4225.00	1000055.00 Bottom Packers & Anchor

Total Tool Length: 56.00



DRILL STEM TEST REPORT

FLUID SUMMARY

GRAND MESA OPERATING COMPANY
1700 N WATERFRONT PKWY BLDG 600
WICHITA KS 67206
ATTN: BOB PETERSON

G ANDERSEN 2-26
26-12S-32W LOGAN
Job Ticket: 1032 DST#: 4
Test Start: 2010.10.06 @ 21:00:00

Mud and Cushion Information

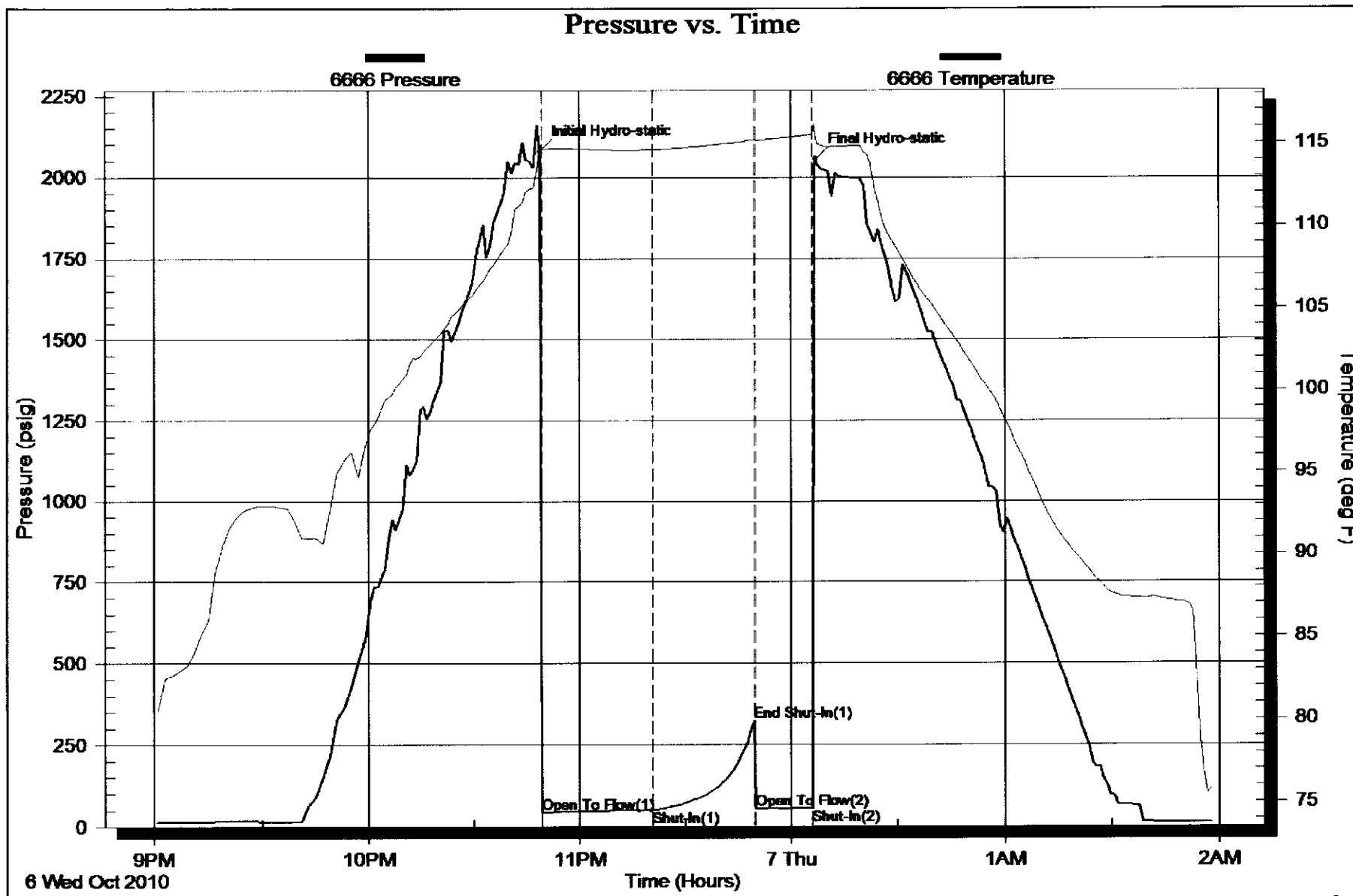
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 62.00 sec/qt	Cushion Volume: bbl		
Water Loss: 81.96 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 2000.00 ppm			
Filter Cake: inches			

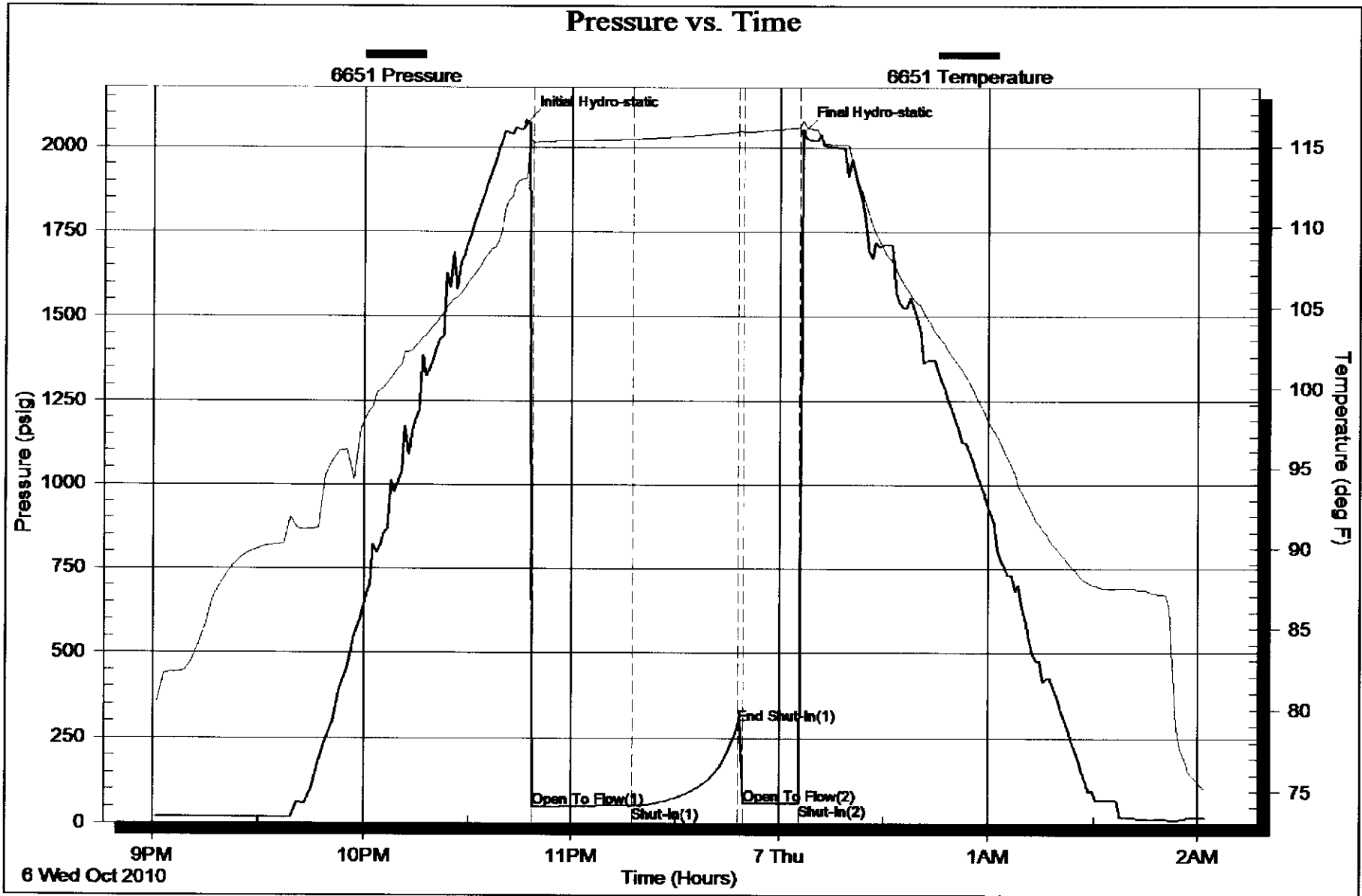
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	MUD TRACE OF OIL 100%MUD	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:







DRILL STEM TEST REPORT

Prepared For: **GRAND MESA OPERATING COMPANY**

1700 N WATERFRONT PKWY BLDG 600
WICHITA KS 67206

ATTN: BOB PETERSON

26-12S-32W LOGAN

G ANDERSEN 2-26

Start Date: 2010.10.07 @ 18:00:00

End Date: 2010.10.08 @ 01:11:30

Job Ticket #: 1033 DST #: 5

Eagle Testers LLC.

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

620-617-7548

Printed: 2010.10.07 @ 18:35:42



DRILL STEM TEST REPORT

GRAND MESA OPERATING COMPANY
 1700 N WATERFRONT PKWY BLDG 600
 WICHITA KS 67206
 ATTN: BOB PETERSON

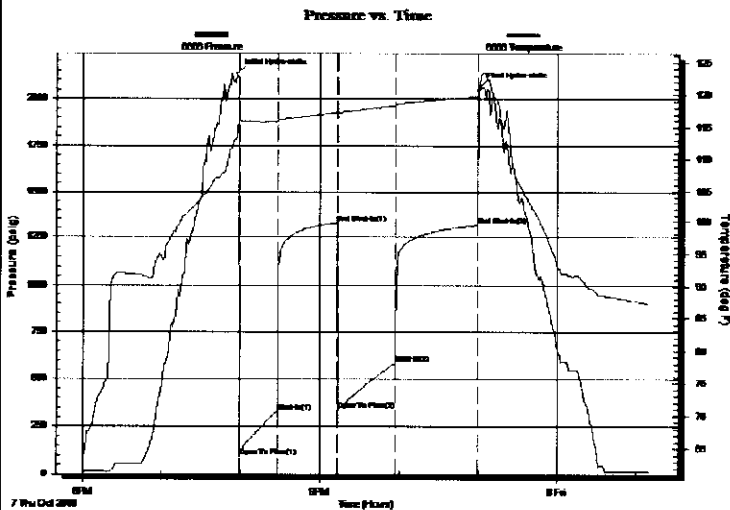
G ANDERSEN 2-26
26-12S-32W LOGAN
 Job Ticket: 1033 **DST#: 5**
 Test Start: 2010.10.07 @ 18:00:00

GENERAL INFORMATION:

Formation: **LKC K-L-**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 19:59:30
 Time Test Ended: 01:11:30
 Test Type: Conventional Bottom Hole (Initial)
 Tester: DAVID NICHOLS
 Unit No: 15 70 MRT SCOTT CIT
 Interval: **4244.00 ft (KB) To 4321.00 ft (KB) (TVD)**
 Reference Elevations: 2995.00 ft (KB)
 Total Depth: 4321.00 ft (KB) (TVD) 2990.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 5.00 ft

Serial #: 6666 Inside
 Press@RunDepth: 584.86 psig @ 4283.00 ft (KB) Capacity: 5000.00 psig
 Start Date: 2010.10.07 End Date: 2010.10.08 Last Calib.: 2010.10.07
 Start Time: 18:00:00 End Time: 01:11:30 Time On Btm: 2010.10.07 @ 19:57:30
 Time Off Btm: 2010.10.07 @ 23:01:00

TEST COMMENT: 30-INITIAL OPENING GOOD BLOW BOTTOM BUCKET IN 7 MINS
 45-INITIAL SHUT IN NO BLOW BACK
 45-FINAL OPENING GOOD BLOW BOTTOM BUCKET IN 7 MINS
 60-FINAL SHUT IN NO BLOW BACK



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2135.86	113.35	Initial Hydro-static
2	92.33	115.95	Open To Flow (1)
31	329.18	115.91	Shut-In(1)
76	1327.87	117.30	End Shut-In(1)
76	335.68	117.21	Open To Flow (2)
120	584.86	118.37	Shut-In(2)
182	1313.67	119.76	End Shut-In(2)
184	2065.20	121.40	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1080.00	MUDDY WATER	14.63

Gas Rates

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



DRILL STEM TEST REPORT

GRAND MESA OPERATING COMPANY

G ANDERSEN 2-26

1700 N WATERFRONT PKWY BLDG 600
WICHITA KS 67206

26-12S-32W LOGAN

Job Ticket: 1033

DST#: 5

ATTN: BOB PETERSON

Test Start: 2010.10.07 @ 18:00:00

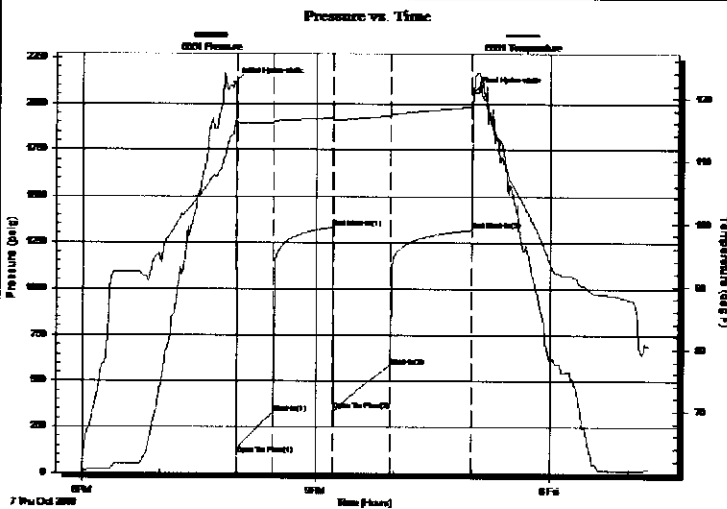
GENERAL INFORMATION:

Formation: **LKC K-L-**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 19:59:30
 Time Test Ended: 01:11:30
 Interval: **4244.00 ft (KB) To 4321.00 ft (KB) (TVD)**
 Total Depth: 4321.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: DAVID NICHOLS
 Unit No: 15 70 MRT SCOTT CIT
 Reference Elevations: 2995.00 ft (KB)
 2990.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 6651

Press@RunDepth: 1315.30 psig @ ft (KB) Capacity: 5000.00 psig
 Start Date: 2010.10.07 End Date: 2010.10.08 Last Calib.: 2010.10.07
 Start Time: 18:00:00 End Time: 01:16:00 Time On Btm: 2010.10.07 @ 19:57:30
 Time Off Btm: 2010.10.07 @ 23:00:30

TEST COMMENT: 30-INITIAL OPENING GOOD BLOW BOTTOM BUCKET IN 7 MINS
 45-INITIAL SHUT IN NO BLOW BACK
 45-FINAL OPENING GOOD BLOW BOTTOM BUCKET IN 7 MINS
 60-FINAL SHUT IN NO BLOW BACK



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2115.42	116.21	Initial Hydro-static
2	98.46	116.01	Open To Flow (1)
30	328.29	116.15	Shut-In(1)
76	1329.27	116.87	End Shut-In(1)
76	339.70	116.51	Open To Flow (2)
119	585.63	117.26	Shut-In(2)
182	1315.30	118.66	End Shut-In(2)
183	2068.26	120.39	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1080.00	MUDDY WATER	14.63

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

GRAND MESA OPERATING COMPANY
 1700 N WATERFRONT PKWY BLDG 600
 WICHITA KS 67206
 ATTN: BOB PETERSON

G ANDERSEN 2-26
26-12S-32W LOGAN
 Job Ticket: 1033 **DST#: 5**
 Test Start: 2010.10.07 @ 18:00:00

Tool Information

Drill Pipe:	Length: 4101.00 ft	Diameter: 3.88 inches	Volume: 59.97 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: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 80000.00 lb
		Total Volume: 60.56 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	0.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	4244.00 ft			Final 56000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	77.00 ft			
Tool Length:	100.00 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			4226.00	
HYD S.I. Tool	5.00			4231.00	
jars	6.00			4237.00	
safty joint	2.00			4239.00	
TRAVEL COLER	2.00			4241.00	
Packer	3.00			4244.00	23.00 Bottom Of Top Packer
travel collar	2.00			4246.00	77.00 Tool Interval
Packer	3.00			4249.00	
change over sub	0.75			4249.75	
drill pipe	31.50			4281.25	
change over sub	0.75			4282.00	
Recorder	1.00	6666	Inside	4283.00	
Perforations	34.00			4317.00	
Recorder	1.00	6651	Outside	4318.00	
bull plug	3.00			4321.00	1000099.00 Bottom Packers & Anchor

Total Tool Length: 100.00



DRILL STEM TEST REPORT

FLUID SUMMARY

GRAND MESA OPERATING COMPANY
1700 N WATERFRONT PKWY BLDG 600
WICHITA KS 67206
ATTN: BOB PETERSON

G ANDERSEN 2-26
26-12S-32W LOGAN
Job Ticket: 1033 DST#: 5
Test Start: 2010.10.07 @ 18:00:00

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:	62.00 sec/qt	Cushion Volume:	bbbl		
Water Loss:	8.20 in ³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	2000.00 ppm				
Filter Cake:	inches				

Recovery Information

Recovery Table

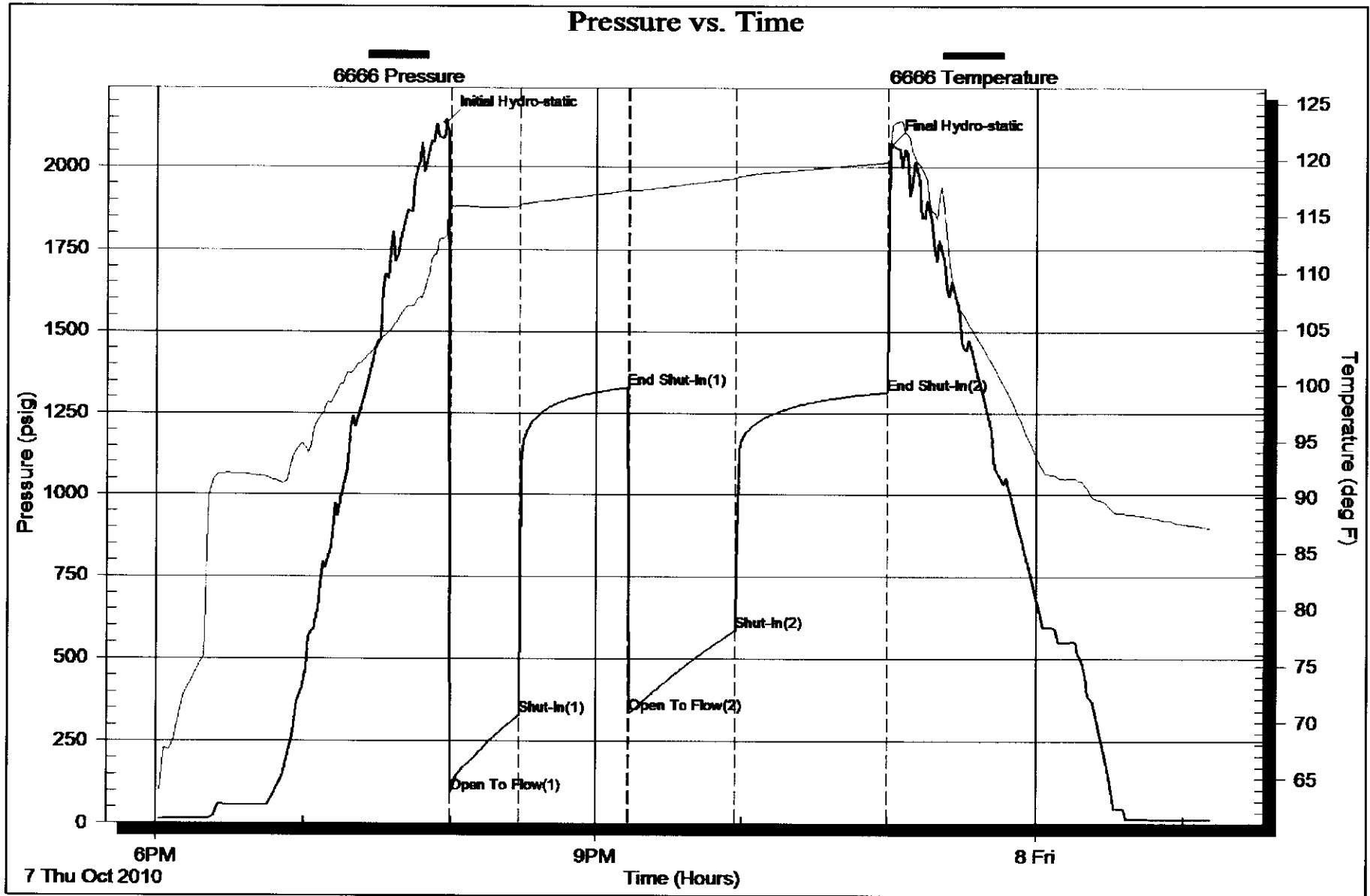
Length ft	Description	Volume bbl
1080.00	MUDDY WATER	14.629

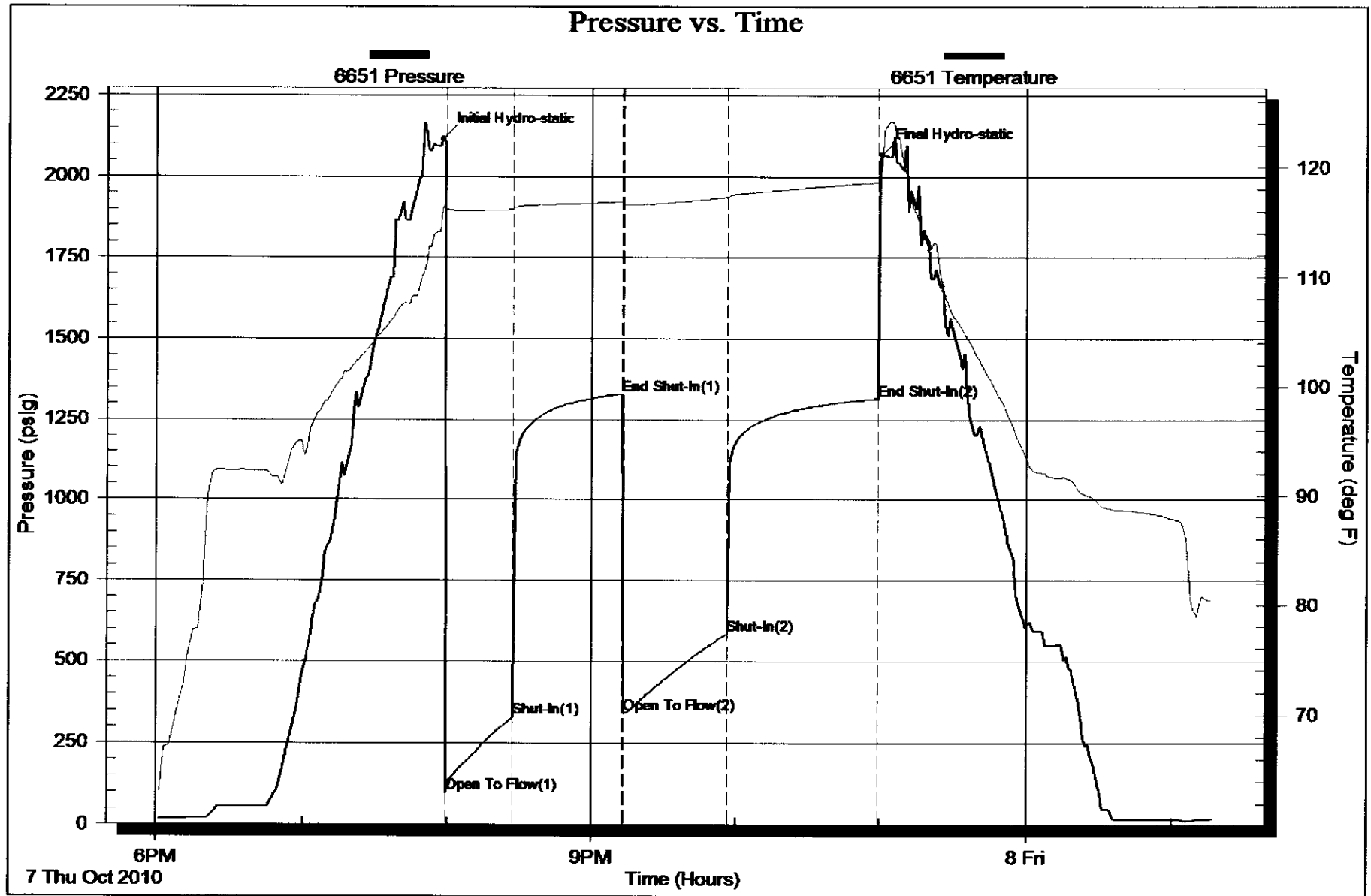
Total Length: 1080.00 ft Total Volume: 14.629 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: RECOVERY CHLORIDES 35 ,000







DRILL STEM TEST REPORT

Prepared For: **GRAND MESA OPERATING COMPANY**

1700 N WATERFRONT PKWY BLDG 600
WICHITA KS 67206

ATTN: BOB PETERSON

26-12S-32W LOGAN

G ANDERSEN 2-26

Start Date: 2010.10.09 @ 06:00:00

End Date: 2010.10.09 @ 15:42:00

Job Ticket #: 1034 DST #: 6

Eagle Testers LLC.

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

620-617-7548

Printed: 2010.10.09 @ 07:06:23



DRILL STEM TEST REPORT

GRAND MESA OPERATING COMPANY
 1700 N WATERFRONT PKWY BLDG 600
 WICHITA KS 67206
 ATTN: BOB PETERSON

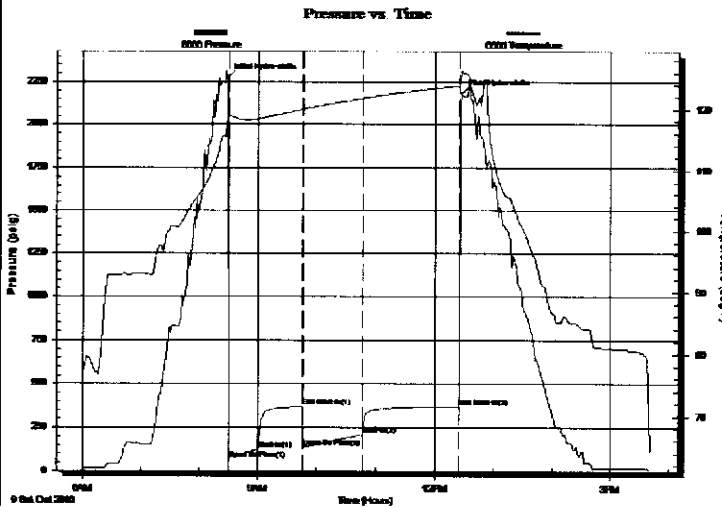
G ANDERSEN 2-26
26-12S-32W LOGAN
 Job Ticket: 1034 **DST#: 6**
 Test Start: 2010.10.09 @ 06:00:00

GENERAL INFORMATION:

Formation: **JOHNSON**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 08:30:00
 Time Test Ended: 15:42:00
 Test Type: Conventional Bottom Hole (Initial)
 Tester: DAVID NICHOLS
 Unit No: 15 70 M RT SCOTT QT
 Interval: **4532.00 ft (KB) To 4586.00 ft (KB) (TVD)**
 Reference Elevations: 2995.00 ft (KB)
 Total Depth: 4586.00 ft (KB) (TVD) 2990.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 5.00 ft

Serial #: 6666 Inside
 Press@RunDepth: 208.87 psig @ 4582.00 ft (KB) Capacity: 5000.00 psig
 Start Date: 2010.10.09 End Date: 2010.10.09 Last Calib.: 2010.10.09
 Start Time: 06:00:00 End Time: 15:42:00 Time On Btm: 2010.10.09 @ 08:28:30
 Time Off Btm: 2010.10.09 @ 12:27:30

TEST COMMENT: 30-INITIAL OPENING GOOD BLOW BOTTOM BUCKET IN 5 MINS
 45-INITIAL SHUT IN FAIR BLOW BACK
 60-FINAL OPENING GOOD BLOW BOTTOM BUCKET IN 3 MINS
 90FINAL SHUT IN FAIR BLOW BACK



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2271.44	118.16	Initial Hydro-static
2	67.43	118.77	Open To Flow (1)
32	124.18	118.39	Shut-In(1)
77	371.04	119.97	End Shut-In(1)
78	135.68	119.98	Open To Flow (2)
138	208.87	121.78	Shut-In(2)
237	372.56	123.88	End Shut-In(2)
239	2182.52	126.44	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1400.00	GAS IN PIPE 100%GAS	19.31
320.00	GASSY OIL 30%GAS70%OIL	4.68
60.00	MUD CUT OIL 20%MUD 80%OIL	0.88

Gas Rates

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



DRILL STEM TEST REPORT

GRAND MESA OPERATING COMPANY
 1700 N WATERFRONT PKWY BLDG 600
 WICHITA KS 67206
 ATTN: BOB PETERSON

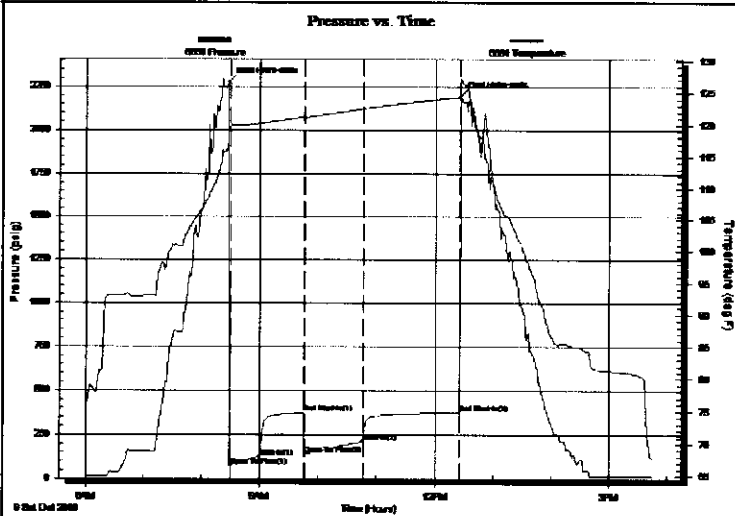
G ANDERSEN 2-26
26-12S-32W LOGAN
 Job Ticket: 1034 DST#: 6
 Test Start: 2010.10.09 @ 06:00:00

GENERAL INFORMATION:

Formation: **JOHNSON**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 08:30:00
 Time Test Ended: 15:42:00
 Interval: **4532.00 ft (KB) To 4586.00 ft (KB) (TVD)**
 Total Depth: 4586.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: DAVID NICHOLS
 Unit No: 15 70 MRT SCOTT CIT
 Reference Elevations: 2995.00 ft (KB)
 2990.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 6651 Outside
 Press@RunDepth: 374.62 psig @ 4583.00 ft (KB) Capacity: 5000.00 psig
 Start Date: 2010.10.09 End Date: 2010.10.09 Last Calib.: 2010.10.09
 Start Time: 06:00:00 End Time: 15:47:00 Time On Btm: 2010.10.09 @ 08:28:00
 Time Off Btm: 2010.10.09 @ 12:26:30

TEST COMMENT: 30-INITIAL OPENING GOOD BLOW BOTTOM BUCKET IN 5 MINS
 45-INITIAL SHUT IN FAIR BLOW BACK
 60-FINAL OPENING GOOD BLOW BOTTOM BUCKET IN 3 MINS
 90FINAL SHUT IN FAIR BLOW BACK



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2275.94	119.17	Initial Hydro-static
2	74.00	119.79	Open To Flow (1)
32	126.02	120.17	Shut-In(1)
77	373.09	121.21	End Shut-In(1)
78	140.59	121.16	Open To Flow (2)
138	212.00	122.49	Shut-In(2)
237	374.62	124.36	End Shut-In(2)
239	2197.71	127.39	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1400.00	GAS IN PIPE 100%GAS	19.31
320.00	GASSY OIL 30%GAS70%OIL	4.68
60.00	MUD CUT OIL 20%MUD 80%OIL	0.88

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

GRAND MESA OPERATING COMPANY

G ANDERSEN 2-26

1700 N WATERFRONT PKWY BLDG 600
WICHITA KS 67206

26-12S-32W LOGAN

Job Ticket: 1034

DST#: 6

ATTN: BOB PETERSON

Test Start: 2010.10.09 @ 06:00:00

Tool Information

Drill Pipe:	Length: 4390.00 ft	Diameter: 3.88 inches	Volume: 64.20 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: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 64.79 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	1.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	4532.00 ft			Final 56000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	54.00 ft			
Tool Length:	77.00 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			4514.00	
HYD S.I. Tool	5.00			4519.00	
jars	6.00			4525.00	
safty joint	2.00			4527.00	
TRAVEL COLER	2.00			4529.00	
Packer	3.00			4532.00	23.00 Bottom Of Top Packer
travel collar	2.00			4534.00	54.00 Tool Interval
Packer	3.00			4537.00	
change over sub	0.75			4537.75	
drill pipe	31.50			4569.25	
change over sub	0.75			4570.00	
Perforations	11.00			4581.00	
Recorder	1.00	6666	Inside	4582.00	
Recorder	1.00	6651	Outside	4583.00	
bull plug	3.00			4586.00	1000076.00 Bottom Packers & Anchor

Total Tool Length: 77.00



DRILL STEM TEST REPORT

FLUID SUMMARY

GRAND MESA OPERATING COMPANY
1700 N WATERFRONT PKWY BLDG 600
WICHITA KS 67206
ATTN: BOB PETERSON

G ANDERSEN 2-26
26-12S-32W LOGAN
Job Ticket: 1034 **DST#: 6**
Test Start: 2010.10.09 @ 06:00:00

Mud and Cushion Information

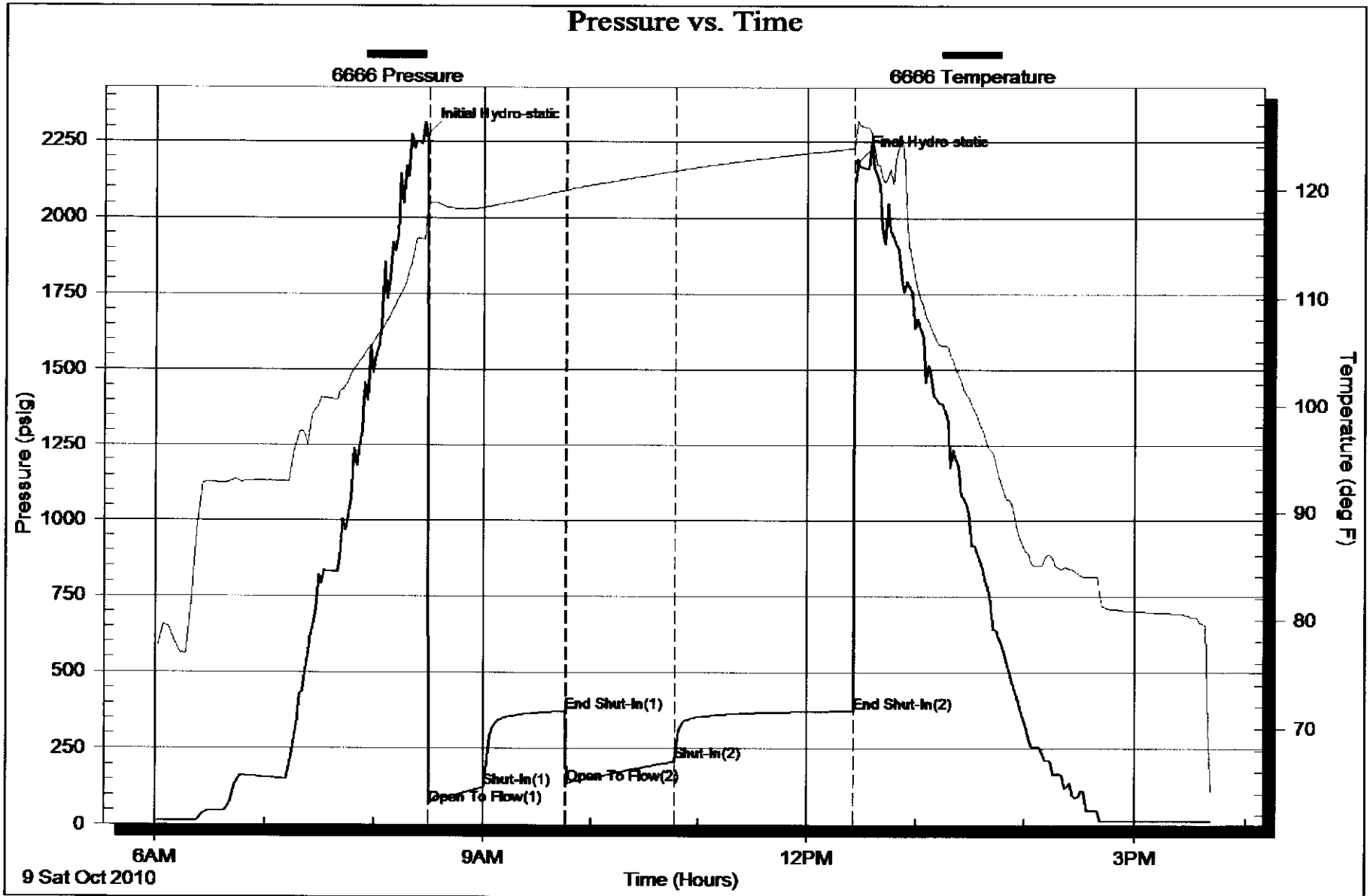
Mud Type:	Gel Chem	Cushion Type:		Oil API:	29 deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	ppm
Viscosity:	57.00 sec/qt	Cushion Volume:	bbbl		
Water Loss:	8.80 in ³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	2500.00 ppm				
Filter Cake:	inches				

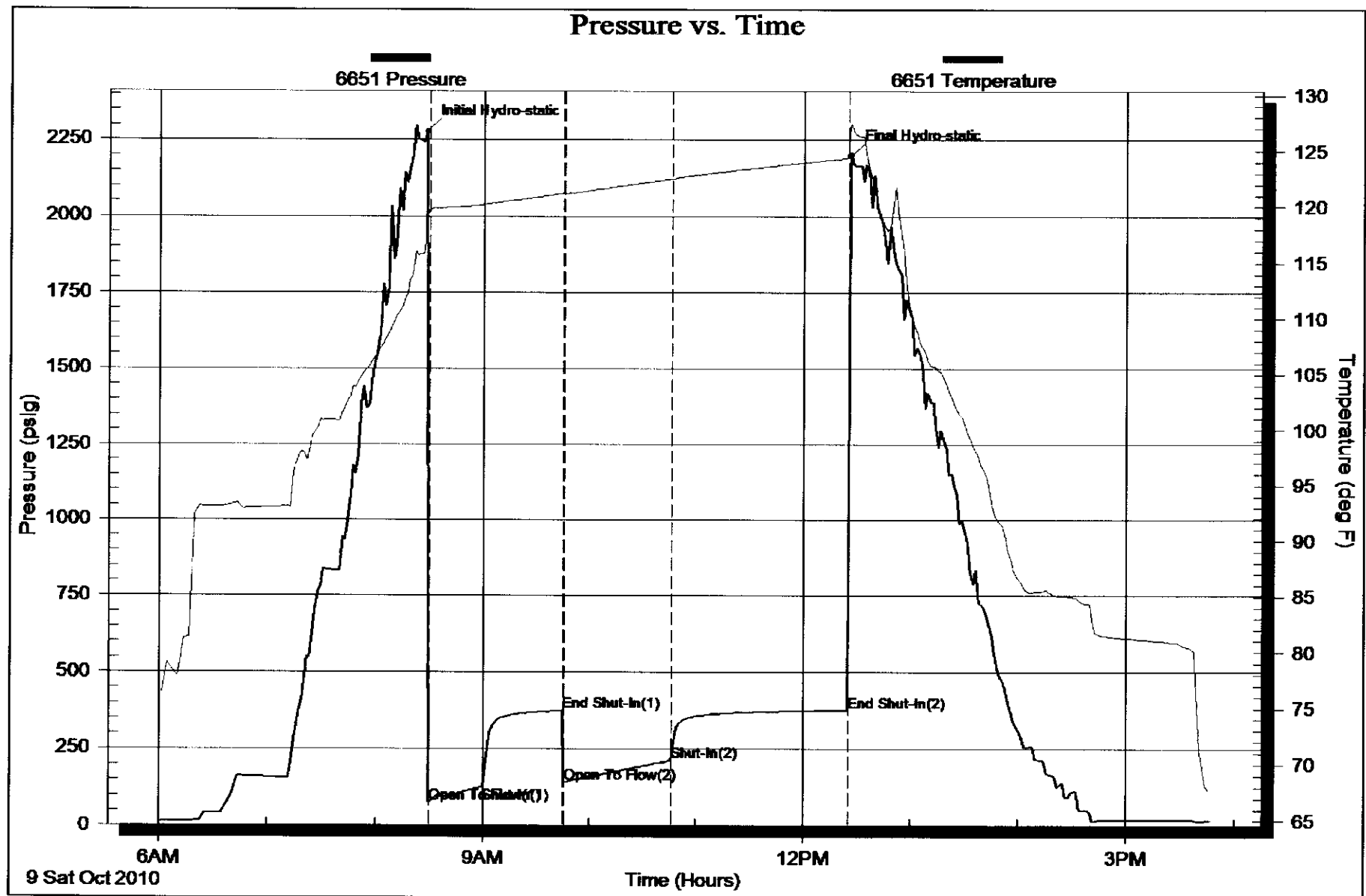
Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
1400.00	GAS IN PIPE 100%GAS	19.309
320.00	GASSY OIL 30%GAS70%OIL	4.680
60.00	MUD CUT OIL 20%MUD 80%OIL	0.877

Total Length: 1780.00 ft Total Volume: 24.866 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:





ALLIED CEMENTING CO., LLC. 035473

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

SERVICE POINT: Dakley, Ky

DATE <u>9/30/10</u>	SEC. <u>26</u>	TWP. <u>12</u>	RANGE <u>32</u>	CALLED OUT	ON LOCATION	JOB START <u>6:00p</u>	JOB FINISH <u>6:30p</u>
LEASE <u>G Anderson</u>	WELL # <u>226</u>	LOCATION <u>Dakley 10S 1/2 E Northway</u>			COUNTY	STATE <u>Ky</u>	
OLD OR <u>NEW</u> (Circle one)							

CONTRACTOR Mess Fin 24
 TYPE OF JOB Surface
 HOLE SIZE 12 1/4 T.D. 220'
 CASING SIZE 8 7/8 DEPTH 220'
 TUBING SIZE DEPTH
 DRILL PIPE DEPTH
 TOOL DEPTH
 PRES. MAX MINIMUM
 MEAS. LINE SHOE JOINT
 CEMENT LEFT IN CSG. 15'
 PERFS.
 DISPLACEMENT 13.0585 BBL H₂O

OWNER Sammy
 CEMENT AMOUNT ORDERED 165 SKs Com 300cc 200gal

COMMON	<u>165</u>	@ <u>15.45</u>	<u>2549.25</u>
POZMIX		@ <u>2.20</u>	
GEL	<u>3</u>	@ <u>58.00</u>	<u>174.00</u>
CHLORIDE	<u>6</u>	@ <u>58.00</u>	<u>348.00</u>
ASC		@	
		@	
		@	
		@	
		@	
		@	
		@	
		@	
		@	
HANDLING	<u>174 SK</u>	@ <u>2.40</u>	<u>417.60</u>
MILEAGE	<u>104 SK/mile</u>	@ <u>3.00</u>	<u>312.00</u>
TOTAL			<u>3690.45</u>

EQUIPMENT

PUMP TRUCK CEMENTER Alan
 # 423-281 HELPER Wayne
 BULK TRUCK
 # 390 DRIVER W. I.
 BULK TRUCK
 # DRIVER

REMARKS:

Run 278 gal Gravelate mix 165 SKs Com 300 cc 200 cc gel, Displace Cement w/ 13.05 BBL H₂O
Cement did Gravelate
Thank You Alan, Wayne, W. I.

SERVICE

DEPTH OF JOB			
PUMP TRUCK CHARGE			<u>1018.00</u>
EXTRA FOOTAGE		@	
MILEAGE	<u>11</u>	@ <u>7.00</u>	<u>77.00</u>
MANIFOLD		@	
		@	
		@	
TOTAL			<u>1095.00</u>

CHARGE TO: Grand Messg Operating Inc
 STREET _____
 CITY _____ STATE _____ ZIP _____

PLUG & FLOAT EQUIPMENT

To Allied Cementing Co., LLC.
 You are hereby requested to rent cementing equipment

	@		
	@		
	@		
	@		
	@		

JOB LOG

SWIFT Services, Inc.

DATE 10-10-10 PAGE NO. 1

CUSTOMER Grand Mesa WELL NO. # 276 LEASE G-Anderson JOB TYPE 2-stage TICKET NO. 19180

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1000							coloc setup Trk RTD, 4666' 4655' 5 1/2" x 15.5" x 4666' x 10' Cent. 2, 4, 6, 8, 10, 12, 14, 16, 18, 50 Bask 2, 51 DU 51 @ 2529'
	1010							EE
	1215							Line
	1240	4.5	0			150		Start PreFlashes 500 gal Mud flush 20 bbl RCL flush
	1247	5.5	32/0			200		Start Cement 1755 kts EA-2
	1255		42					End Cement Wash P/L / Drop Plug
	1300	6.5	0			150		Start Displacement w/ 6061
	1310	5	60			150		Mud 5000
	1315		85			200		catch Cement
	1320		101			750 / 1400		Land Plug Release Pressure / Float Held Drop Opening Plug Washup Trk
	1335					1100		Open D.V. Circ 2 hrs
	1505	2.5	7/5					Plug RM & MH 30/15 SMD
	1515	4.5	0			100		Start RCL flush
	1520	6	20/0			150		Start Cement 255 kts SMD
	1543		141					End Cement Drop Plug
	1545	5	0			100		Start Displacement
		5	31			250		Circ Cement
	160		60			450 / 1500		Land Plug Close D.V. Release Pressure Float Held
								circ 30 sks to pit

Handwritten signatures:
 Nick Peng
 John Arthur
 Anthony March

Thank you
 Nick, Peng, Share, John

