



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 <table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:70%; border-bottom: 1px solid black;">Name</td> <td style="width:15%; border-bottom: 1px solid black;">Top</td> <td style="width:15%; border-bottom: 1px solid black;">Datum</td> </tr> </table>	Name	Top	Datum
Name	Top	Datum		

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: <input type="checkbox"/> Yes <input type="checkbox"/> No
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Date of First, Resumed Production, SWD or ENHR.	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____
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Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
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DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____ <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: _____ _____
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Conservation Division
Finney State Office Building
130 S. Market, Rm. 2078
Wichita, KS 67202-3802



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

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

Sam Brownback, Governor

November 16, 2011

Leon Rodak
Murfin Drilling Co., Inc.
250 N WATER STE 300
WICHITA, KS 67202-1216

Re: ACO1
API 15-179-21284-00-00
Bixenman 1-23
SE/4 Sec.23-09S-30W
Sheridan 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,
Leon Rodak

MDCI Bixenman #1-23 990' FSL 2310' FEL Sec. 23-T9S-R30W 2914' KB							MDCI Lager 'A' #1-23 990' FSL 1815' FWL Sec. 23-T9S-R30W 2908' KB	
Formation	Sample top	Datum	Ref	Log tops	Datum	Ref	Log tops	Datum
Anhydrite	2516	+398	-3	2518	+396	-5	2507	+401
B/Anhydrite	2555	+359	-10	2552	+362	-7	2539	+369
Topeka	3732	-818	-10	3731	-817	-9	3716	-808
Heebner	3951	-1037	-8	3950	-1036	-7	3937	-1029
Lansing	3988	-1074	-7	3989	-1075	-8	3975	-1067
BKC	4247	-1333	-3	4246	-1332	-2	4238	-1330
Pawnee	4360	-1446	-6	4358	-1444	-4	4348	-1440
Ft. Scott	4441	-1527	-4	4442	-1528	-5	4431	-1523
Cherokee	4471	-1557	-6	4469	-1555	-4	4459	-1551
Mississippi	4552	-1638	+2	4552	-1638	+2	4548	-1640
RTD	4616						4635	
LTD				4617			4635	

Jeff Christian

PETROLEUM GEOLOGIST

Wichita, Kansas

GEOLOGISTS REPORT

DRILLING TIME AND SAMPLE LOG

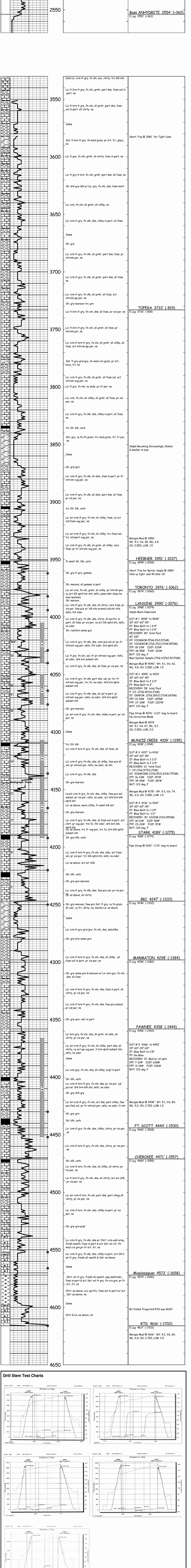
OPERATOR **MURFIN DRILLING CO., INC.**
 LEASE **BIXENMAN # 1-23**
 LOCATION **990' FSI & 2310' FEL**
 SEC. **23** TWP. **9 S** RANG. **30 W**
 COUNTY **SHERIDAN** STATE **KANSAS**
 FIELD **LAGER**
 API **15-179-21284**
 CONTRACTOR **MURFIN DRILLING** RIG NO. **8**
 DRILLING STARTED **7/29/2011** COMPLETED **8/7/2011**
 MUD DISPLACED **32255** MUD TYPE **CHEMICAL**
 DRILLING TIME KEPT FROM **3590** TO RTD
 SAMPLING TIME KEPT FROM **3590** TO RTD
 SAMPLES SAVED FROM **3590** TO RTD
 SAMPLES EXAMINED FROM **3590** TO RTD
 GEOLOGICAL SUPERVISION FROM **3581** TO RTD

MEASUREMENTS FROM LOG
 CASINO RECORD
 CONDUCTOR NONE
 SURFACE **8.5/8" @ 263'**
 W/ 1/8" SX
 PRODUCTION S/D/W

FORMATION NAME TOP DATUM TOP SAMPLE MEASUREMENTS FROM LOG
 ANHYDRITE 2517' (+397) 2517' (+397) (+397)
 TOPEKA 3732' (-818) 3732' (-818)
 HEEBNER 3949' (-1035) 3951' (-1037)
 LANSING 3988' (-1074) 3988' (-1074)
 STARK 4188' (-1274) 4189' (-1275)
 BKC 4246' (-1332) 4247' (-1333)
 PAWNEE 4336' (-1442) 4340' (-1446)
 CHEROKEE 4449' (-1555) 4471' (-1577)
 MISSISSIPPIAN 4570' (-1656) 4592' (-1688)
 TOTAL DEPTH 4617' (-1703) 4616' (-1702)

DATE	7:00 AM	DEPTH	REMARKS
7/29/11	0	SPUD 8:00 am	
7/30/11	700'	dev. 1/4 deg. @ 263'	
7/31/11	2200'	DRLG.	
8/1/11	2913'	DRLG.	
8/2/11	3780'	DRLG.	
8/3/11	4040'	TIH for DST # 1 dev. 1 1/4 deg.	
8/4/11	4076'	TOH w/ DST # 2	
8/5/11	4160'	DRLG.	
8/6/11	4330'	DRLG.	
8/7/11	4520'	DRLG. RTD 4616' @ 1:15 pm dev. 1 3/4 deg.	

Remarks
 5 1/2" production casing run to the Anhydrite for salt water disposal well.
 Electric log measurements correlate about 1' to 2' high compared to rotary measurements.
 Sample tops adjusted to the electric log.
 Samples deposited at the Kansas Geological Survey.
 Respectfully Submitted,
Jeff Christian
 Jeff Christian



Drill Stem Test Charts



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co., Inc.
 250 N. Water Suite 300
 Wichita, KS 67202
 ATTN: Jeff Christian

Bixenman #1-23
23/9s/30w Sheridan K
 Job Ticket: 042925 **DST#: 1**
 Test Start: 2011.08.03 @ 06:19:00

GENERAL INFORMATION:

Formation: **LKC "B - D"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 08:45:00
 Time Test Ended: 14:49:30
 Interval: **4005.00 ft (KB) To 4040.00 ft (KB) (TVD)**
 Total Depth: 4040.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole
 Tester: James Winder
 Unit No: 46
 Reference Elevations: 2914.00 ft (KB)
 2909.00 ft (CF)
 KB to GR/CF: 5.00 ft

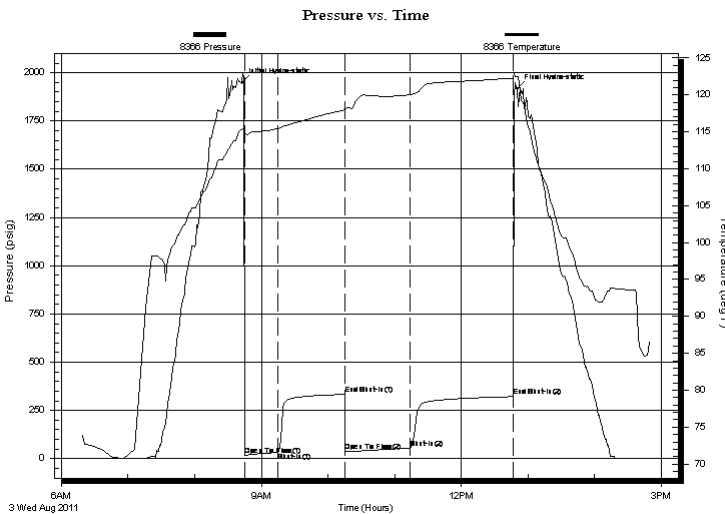
Serial #: 8366

Inside

Press @ Run Depth: 55.07 psig @ 4006.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2011.08.03 End Date: 2011.08.03 Last Calib.: 2011.08.03
 Start Time: 06:19:05 End Time: 14:49:29 Time On Btm: 2011.08.03 @ 08:42:30
 Time Off Btm: 2011.08.03 @ 12:50:30

TEST COMMENT: IF: Blow built to 1 3/4" in 30 min.
 IS: No blow back
 FF: Blow started at 4 3/4 min., built to 1 1/4" in 60 min.
 FS: No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1948.24	115.26	Initial Hydro-static
3	18.08	114.82	Open To Flow (1)
33	32.55	115.46	Shut-In(1)
93	333.29	117.98	End Shut-In(1)
93	35.93	117.98	Open To Flow (2)
152	55.07	120.04	Shut-In(2)
245	322.05	122.27	End Shut-In(2)
248	1915.87	122.53	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	SOWCM 85% m, 11% w, 3% o, 1% g	0.30
20.00	SOCM 91% m, 4% o, 5% g	0.10
0.00	GIP = 40'	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co., Inc.

Bixenman #1-23

250 N. Water Suite 300
Wichita, KS 67202

23/9s/30w Sheridan K

Job Ticket: 042925

DST#: 1

ATTN: Jeff Christian

Test Start: 2011.08.03 @ 06:19:00

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: 4.80 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2500.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	SOWCM 85% <i>m</i> , 11% <i>w</i> , 3% <i>o</i> , 1% <i>g</i>	0.295
20.00	SOCM 91% <i>m</i> , 4% <i>o</i> , 5% <i>g</i>	0.098
0.00	GIP = 40'	0.000

Total Length: 80.00 ft Total Volume: 0.393 bbl

Num Fluid Samples: 0

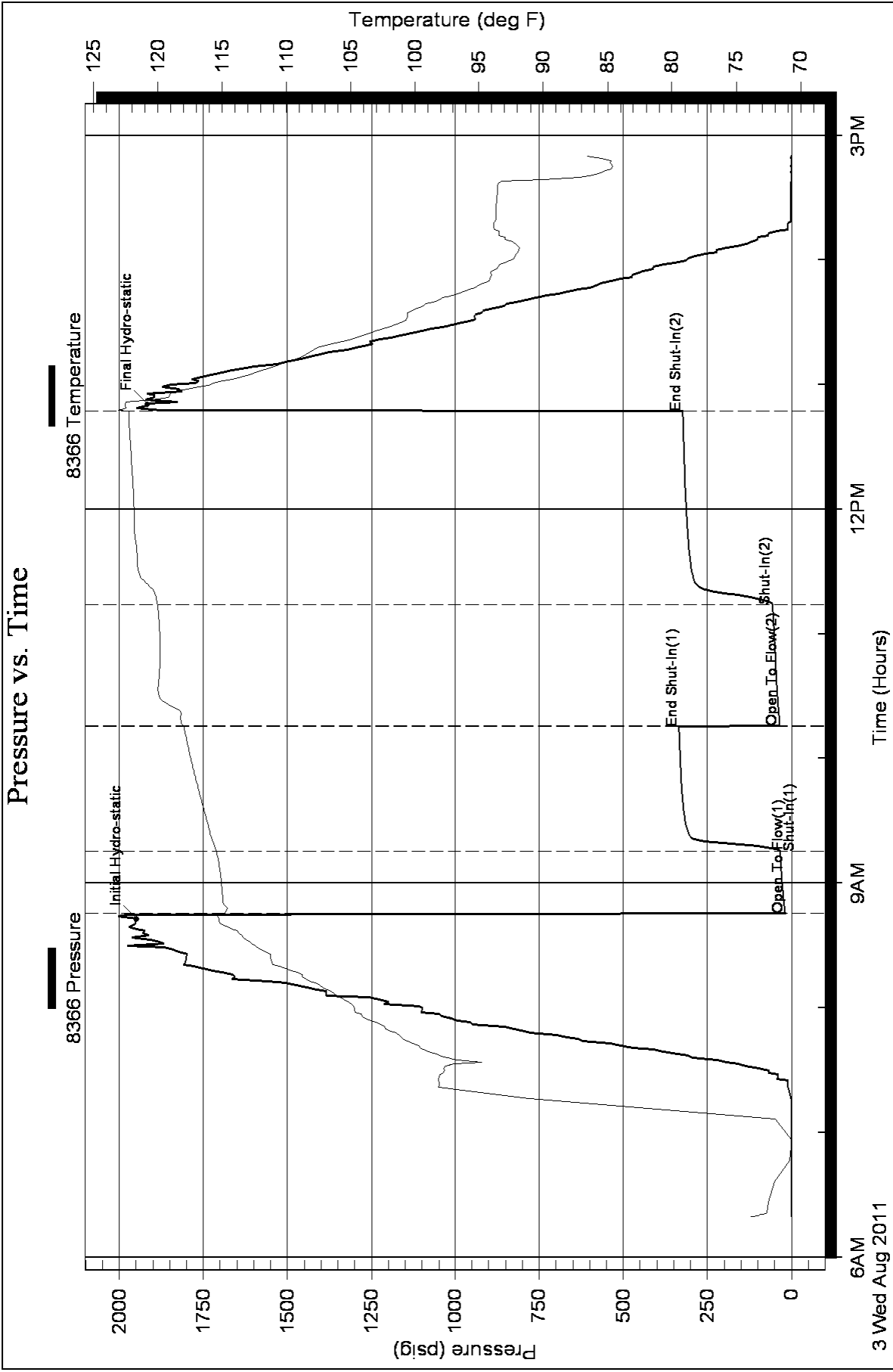
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Mud at flow line checked : (2 samples) 90%*m*, 5%*o*, 5%*g* & 95%*m*, 4%*o*, 1%*g*
before dumping fluid





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Drilling Co., Inc.
250 N. Water Suite 300
Wichita, KS 67202
ATTN: Jeff Christian

Bixenman #1-23
23/9s/30w Sheridan K
Job Ticket: 43776 **DST#: 2**
Test Start: 2011.08.03 @ 23:47:00

GENERAL INFORMATION:

Formation: **LKC "E - F"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 01:49:00
 Time Test Ended: 07:54:00
 Interval: **4050.00 ft (KB) To 4076.00 ft (KB) (TVD)**
 Total Depth: 4076.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole
 Tester: James Winder
 Unit No: 46
 Reference Elevations: 2914.00 ft (KB)
 2909.00 ft (CF)
 KB to GR/CF: 5.00 ft

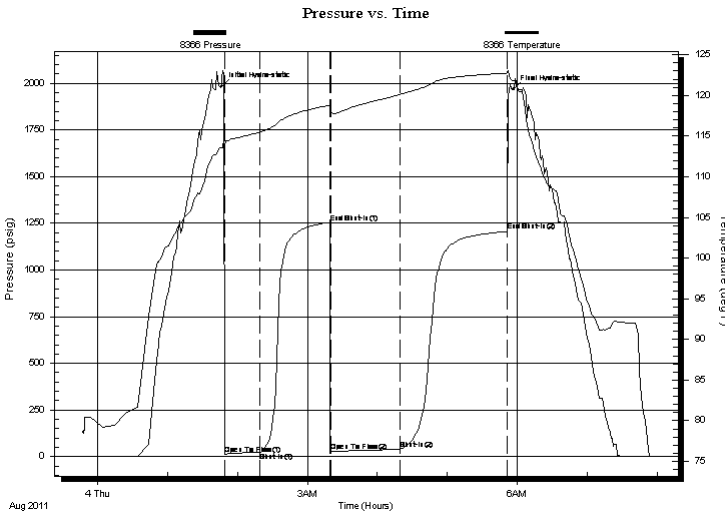
Serial #: 8366

Inside

Press @ Run Depth: 38.87 psig @ 4051.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2011.08.03 End Date: 2011.08.04 Last Calib.: 2011.08.04
 Start Time: 23:47:05 End Time: 07:53:59 Time On Btm: 2011.08.04 @ 01:46:00
 Time Off Btm: 2011.08.04 @ 05:56:30

TEST COMMENT: IF: Blow built to 2 1/2" in 30 min.
 IS: No blow back
 FF: Blow built to 2" in 60 min.
 FS: No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1980.64	113.51	Initial Hydro-static
3	14.42	113.69	Open To Flow (1)
33	24.88	115.49	Shut-In(1)
93	1254.67	118.80	End Shut-In(1)
94	27.14	118.09	Open To Flow (2)
153	38.87	120.11	Shut-In(2)
246	1207.02	122.76	End Shut-In(2)
251	1966.61	121.84	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
53.00	WOCM 69% _m , 18% _o , 11% _w , 2% _g	0.26
5.00	CO 96% _o , 2% _g , 2% _m	0.02

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co., Inc.
250 N. Water Suite 300
Wichita, KS 67202
ATTN: Jeff Christian

Bixenman #1-23
23/9s/30w Sheridan K
Job Ticket: 43776 **DST#: 2**
Test Start: 2011.08.03 @ 23:47:00

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 35.8 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: ppm
Viscosity: 62.00 sec/qt	Cushion Volume: bbl	
Water Loss: 4.80 in ³	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 2500.00 ppm		
Filter Cake: 2.00 inches		

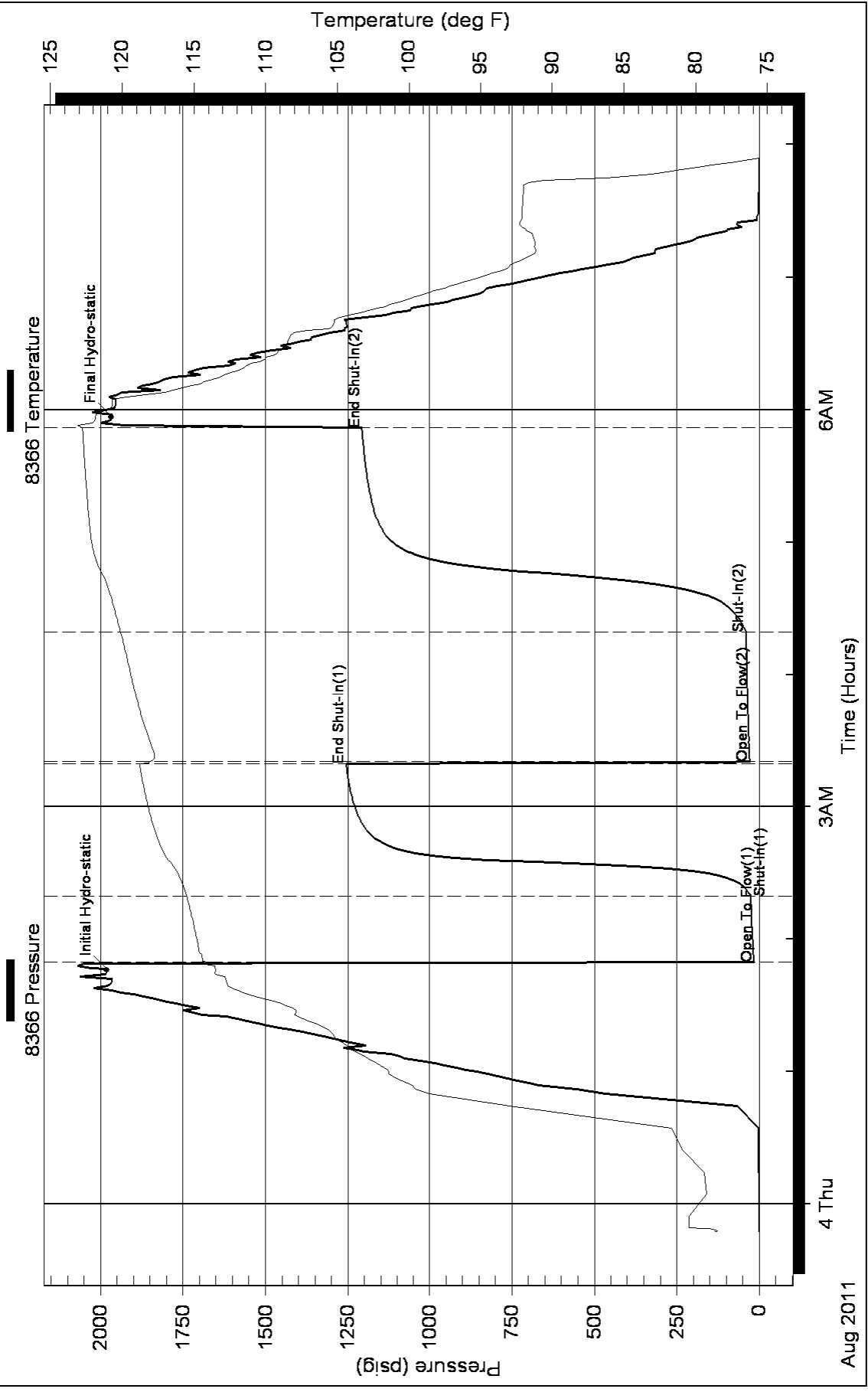
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
53.00	WOCM 69% <i>m</i> , 18% <i>o</i> , 11% <i>w</i> , 2% <i>g</i>	0.261
5.00	CO 96% <i>o</i> , 2% <i>g</i> , 2% <i>m</i>	0.025

Total Length: 58.00 ft Total Volume: 0.286 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments: Gravity = 37.4 api @ 76 deg F
 Corrected Gravity = 35.8 api

Pressure vs. Time





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co., Inc.
 250 N. Water Suite 300
 Wichita, KS 67202
 ATTN: Jeff Christian

Bixenman #1-23
23/9s/30w Sheridan K
 Job Ticket: 43777 **DST#: 3**
 Test Start: 2011.08.04 @ 18:26:00

GENERAL INFORMATION:

Formation: **LKC "H"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 19:54:00
 Time Test Ended: 02:12:30
 Interval: **4107.00 ft (KB) To 4136.00 ft (KB) (TVD)**
 Total Depth: 4136.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole
 Tester: James Winder
 Unit No: 36
 Reference Elevations: 2914.00 ft (KB)
 2909.00 ft (CF)
 KB to GR/CF: 5.00 ft

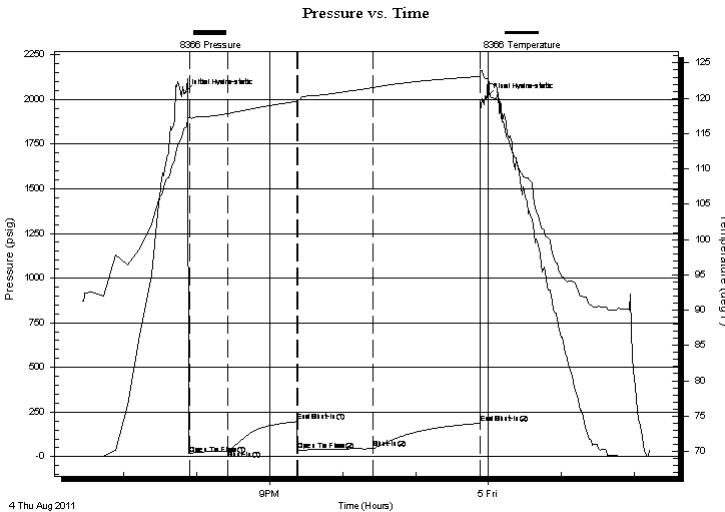
Serial #: 8366

Inside

Press @ Run Depth: 44.66 psig @ 4108.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2011.08.04 End Date: 2011.08.05 Last Calib.: 2011.08.05
 Start Time: 18:26:05 End Time: 02:12:29 Time On Btm: 2011.08.04 @ 19:50:00
 Time Off Btm: 2011.08.04 @ 23:58:00

TEST COMMENT: IF: Blow built to 3 1/2" in 30 min.
 IS: No blow back
 FF: Blow built to 2 1/4" in 60 min.
 FS: No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2035.63	115.80	Initial Hydro-static
4	16.14	117.23	Open To Flow (1)
35	33.31	117.80	Shut-In(1)
93	196.72	119.56	End Shut-In(1)
94	35.21	119.60	Open To Flow (2)
155	44.66	121.50	Shut-In(2)
243	186.89	123.11	End Shut-In(2)
248	2008.65	122.76	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	WOCM 75%o, 11%g, 8%o, 6%w	0.30
1.00	CO 97%o, 2%m, 1%g	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co., Inc.
250 N. Water Suite 300
Wichita, KS 67202
ATTN: Jeff Christian

Bixenman #1-23
23/9s/30w Sheridan K
Job Ticket: 43777 **DST#: 3**
Test Start: 2011.08.04 @ 18:26:00

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: 67.00 sec/qt	Cushion Volume: bbl		
Water Loss: 5.19 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 2500.00 ppm			
Filter Cake: 2.00 inches			

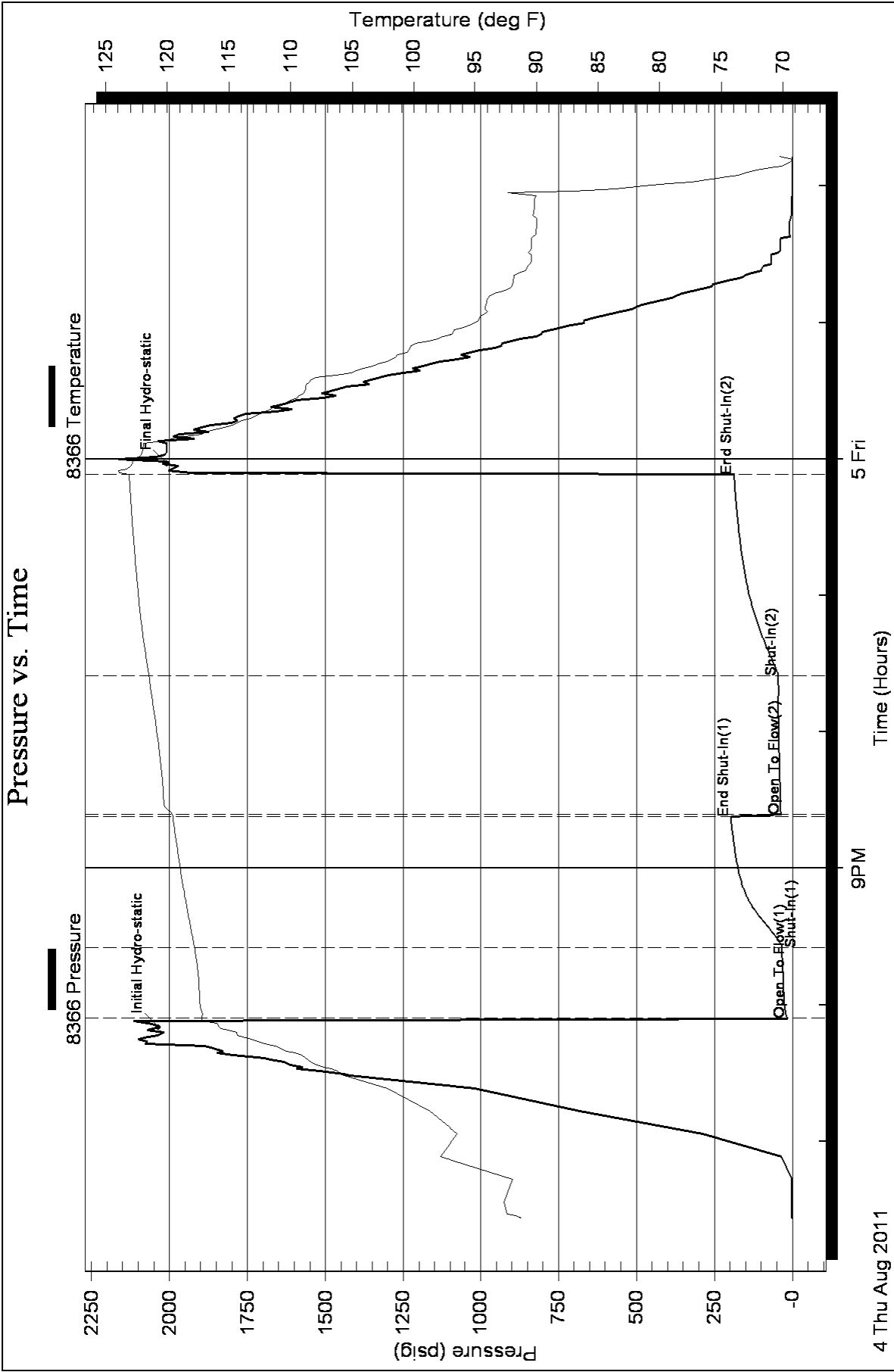
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	WOCM 75%m, 11%g, 8%o, 6%w	0.295
1.00	CO 97%o, 2%m, 1%g	0.005

Total Length: 61.00 ft Total Volume: 0.300 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:

Pressure vs. Time





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Drilling Co., Inc.
250 N. Water Suite 300
Wichita, KS 67202
ATTN: Jeff Christian

Bixenman #1-23
23/9s/30w Sheridan K
Job Ticket: 43778 **DST#: 4**
Test Start: 2011.08.05 @ 12:46:00

GENERAL INFORMATION:

Formation: **LKC "I - J"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 14:49:30
 Time Test Ended: 20:28:00
 Interval: **4136.00 ft (KB) To 4192.00 ft (KB) (TVD)**
 Total Depth: 4192.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole
 Tester: James Winder
 Unit No: 46
 Reference Elevations: 2914.00 ft (KB)
 2909.00 ft (CF)
 KB to GR/CF: 5.00 ft

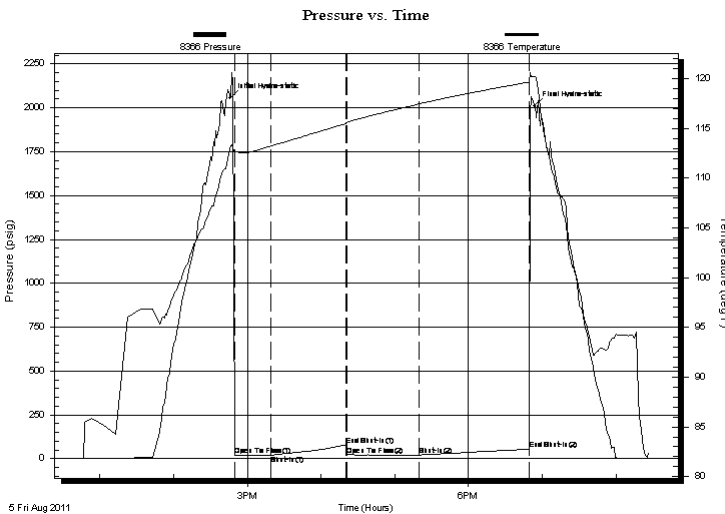
Serial #: 8366

Inside

Press @ Run Depth: 22.12 psig @ 4137.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2011.08.05 End Date: 2011.08.05 Last Calib.: 2011.08.05
 Start Time: 12:46:05 End Time: 20:27:59 Time On Btm: 2011.08.05 @ 14:46:30
 Time Off Btm: 2011.08.05 @ 18:54:00

TEST COMMENT: IF: Blow built to 1 1/4" in 30 min.
 IS: Weak surface blow back for a couple min. about 20 min. into close
 FF: Blow built to 1/2" in 60 min.
 FS: No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2057.51	113.20	Initial Hydro-static
3	18.17	112.61	Open To Flow (1)
33	21.33	113.22	Shut-In(1)
94	79.74	115.48	End Shut-In(1)
95	22.92	115.61	Open To Flow (2)
154	22.12	117.47	Shut-In(2)
243	56.69	119.67	End Shut-In(2)
248	2010.92	120.19	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	SOCM 99% m, 1% o	0.15

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co., Inc.
250 N. Water Suite 300
Wichita, KS 67202
ATTN: Jeff Christian

Bixenman #1-23
23/9s/30w Sheridan K
Job Ticket: 43778 **DST#: 4**
Test Start: 2011.08.05 @ 12:46:00

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: 74.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.00 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 2500.00 ppm			
Filter Cake: 2.00 inches			

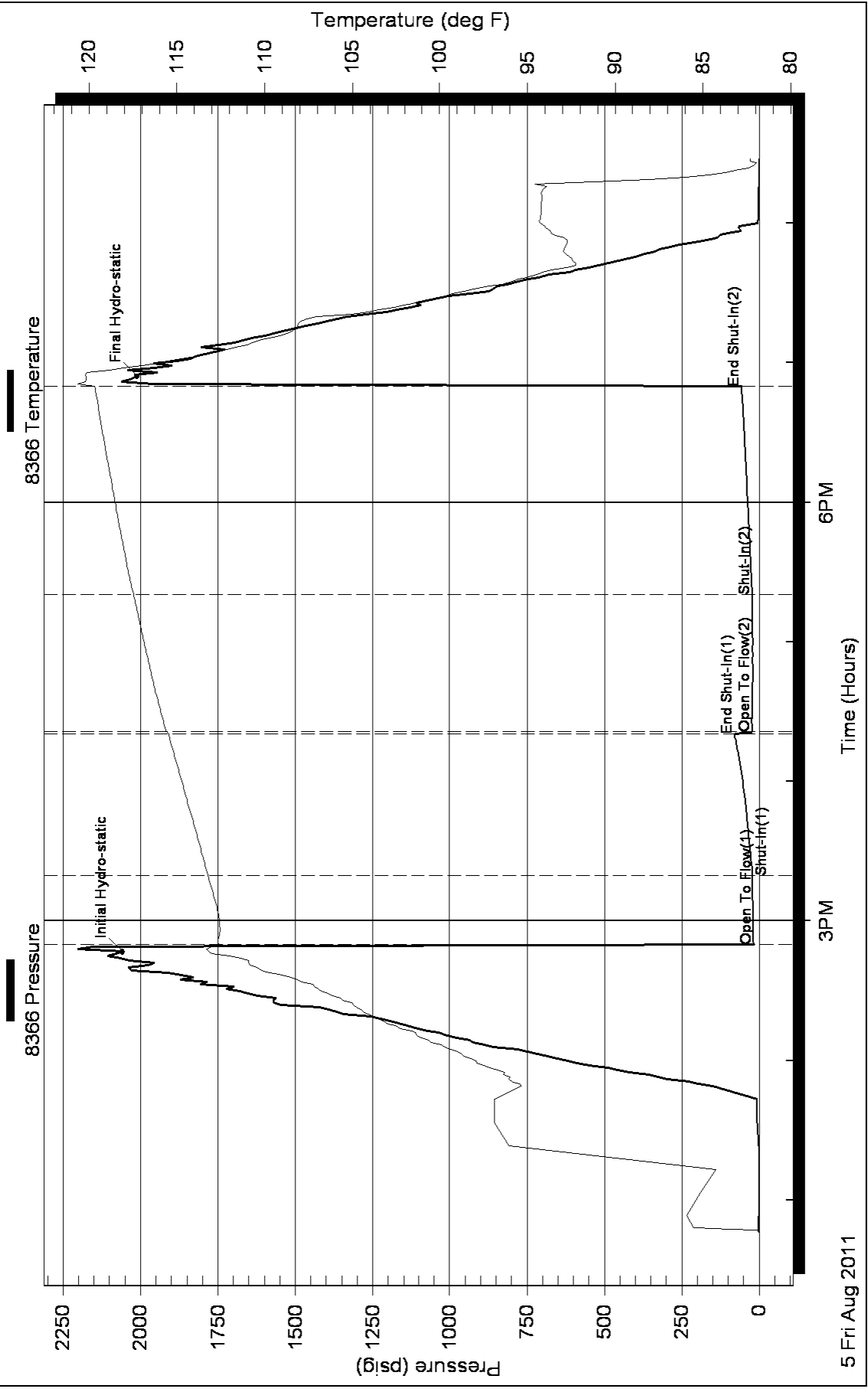
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	SOCM 99% _m , 1% _o	0.148

Total Length: 30.00 ft Total Volume: 0.148 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:

Pressure vs. Time





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Drilling Co., Inc.

Bixenman #1-23

250 N. Water Suite 300
Wichita, KS 67202

23/9s/30w Sheridan K

ATTN: Jeff Christian

Job Ticket: 43753

DST#: 5

Test Start: 2011.08.06 @ 16:31:00

GENERAL INFORMATION:

Formation: **Pawnee - Ft. Scott**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:33:45

Time Test Ended: 00:02:45

Test Type: Conventional Bottom Hole

Tester: Kevin Mack

Unit No: 43

Interval: 4366.00 ft (KB) To 4452.00 ft (KB) (TVD)

Reference Elevations: 2914.00 ft (KB)

Total Depth: 4452.00 ft (KB) (TVD)

2909.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 6799 Inside

Press @ Run Depth: 19.23 psig @ 4367.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.08.06

End Date:

2011.08.07

Last Calib.: 2011.08.07

Start Time: 16:31:05

End Time:

00:02:44

Time On Btm: 2011.08.06 @ 18:33:30

Time Off Btm: 2011.08.06 @ 21:35:45

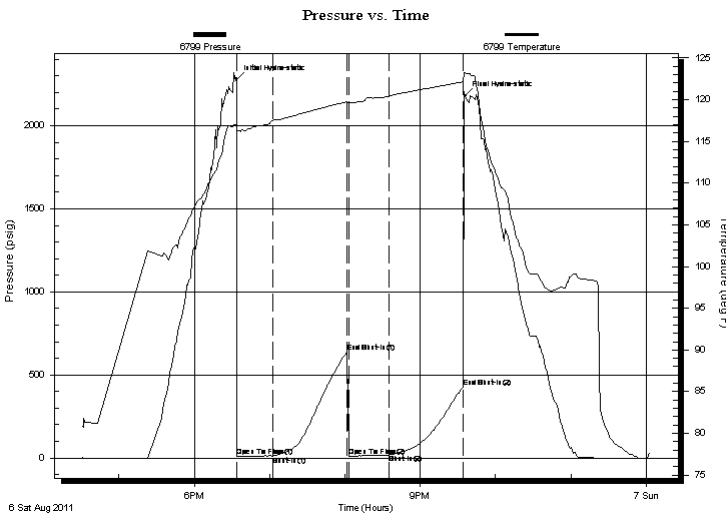
TEST COMMENT: IF: Surface Blow built to 1/8"

IS: No Return

FF: No Blow

FS: No Return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2278.35	117.07	Initial Hydro-static
1	7.95	116.44	Open To Flow (1)
30	12.26	117.47	Shut-In(1)
89	638.85	119.76	End Shut-In(1)
90	11.60	119.55	Open To Flow (2)
122	19.23	120.44	Shut-In(2)
181	426.43	122.14	End Shut-In(2)
183	2181.09	123.20	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	OSM 100M (oil spots)	0.05

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co., Inc.
250 N. Water Suite 300
Wichita, KS 67202
ATTN: Jeff Christian

Bixenman #1-23
23/9s/30w Sheridan K
Job Ticket: 43753 **DST#: 5**
Test Start: 2011.08.06 @ 16:31:00

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: 84.00 sec/qt	Cushion Volume: bbl		
Water Loss: 5.20 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 2700.00 ppm			
Filter Cake: 2.00 inches			

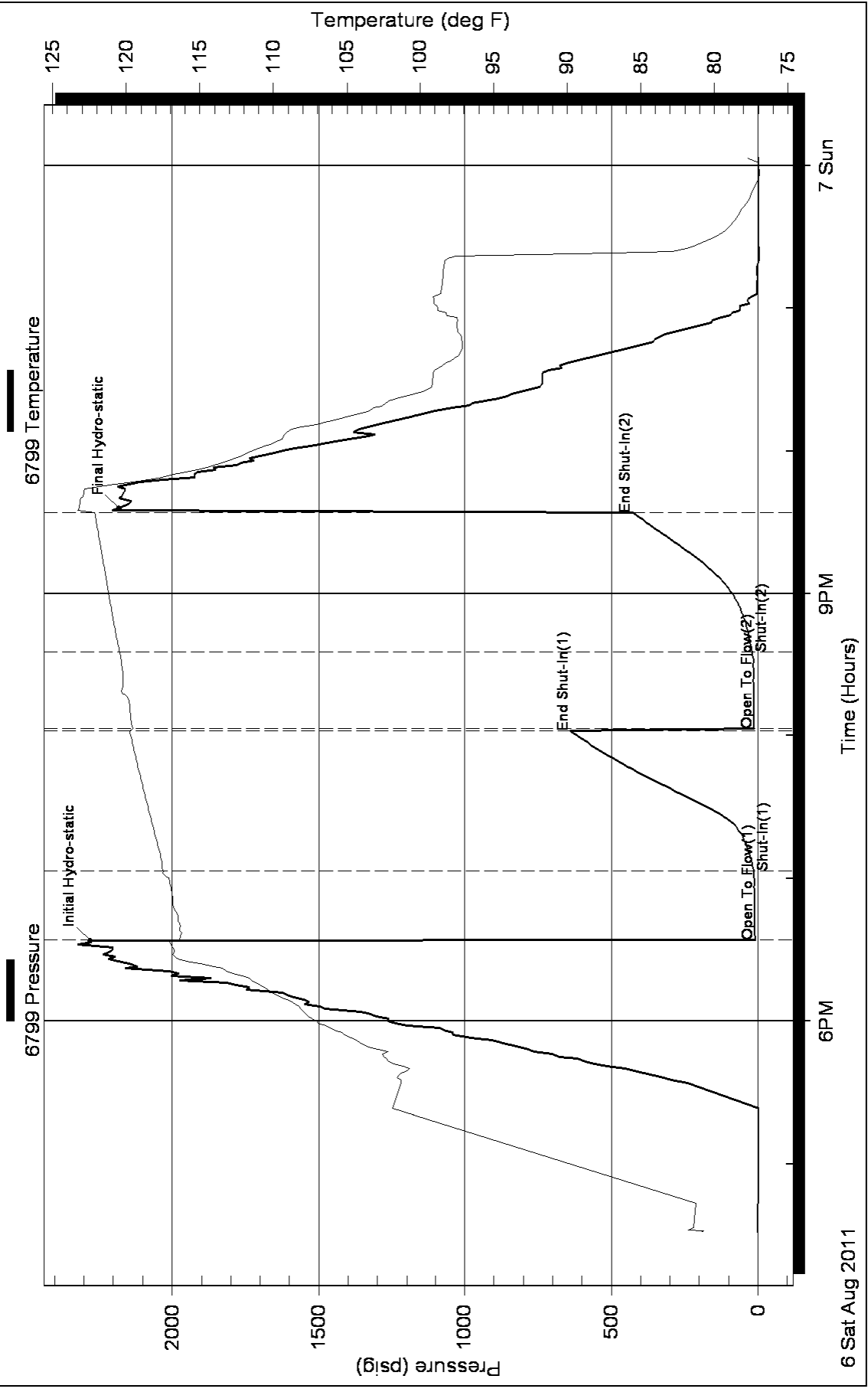
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	OSM 100M (oil spots)	0.049

Total Length: 10.00 ft Total Volume: 0.049 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:

Pressure vs. Time





PO BOX 31 Russell, KS 67665

Voice: (785) 483-3887
Fax: (785) 483-5566

PROD COPY

user. Lig.

INVOICE

Invoice Number: 128070

Invoice Date: Jul 29, 2011

Page: 1

USED FOR _____
APPROVED _____

Bill To:
Murfin Drig. Co., Inc.
250 N. Water
STE #300
Wichita, KS 67202

Federal Tax I.D.#: 20-5975804

*operator pay
MRC*

Bixeman 1-23

Customer ID	Murfin	Well Name # or Customer P.O.	Bixeman #1-23	Payment Terms	Net 30 Days
Job Location	KS1-01	Camp Location	Russell	Service Date	Jul 29, 2011
Due Date	8/28/11				

Quantity	Item	Description	Unit Price	Amount
185.00	MAT	Class A Common	16.25	3,006.25
7.00	MAT	Chloride	58.20	407.40
192.00	SER	Handling	2.25	432.00
25.00	SER	Mileage	21.12	528.00
1.00	SER	Surface	1,125.00	1,125.00
50.00	SER	Heavy Vehicle Mileage	7.00	350.00
50.00	SER	Light Vehicle Mileage	4.00	200.00
1.00	CEMENTER	Shane Poche		
1.00	CEMENTER	Heath Long		
1.00	OPER ASSIST	Kevin Weighous		
		<i>Account</i>		
		<i>DP203</i>	<i>633.98</i>	
		<i>3.056.000</i>	<i>(1333.13)</i>	
		<i>Subscription</i>		<i>*1-13</i>

Subtotal	6,048.65
Sales Tax	283.33
Total Invoice Amount	6,331.98
Payment/Credit Applied	
TOTAL	6,331.98

ALL PRICES ARE NET, PAYABLE 30 DAYS FOLLOWING DATE OF INVOICE. 1 1/2% CHARGED THEREAFTER. IF ACCOUNT IS CURRENT, TAKE DISCOUNT OF \$ 1533.13

ONLY IF PAID ON OR BEFORE Aug 23, 2011

OKM

-1533.13

4748.85

ALLIED CEMENTING CO., LLC. 035922

Federal Tax I.D.# 20-5975804

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

SERVICE POINT:

Russell

DATE <u>7/27/11</u>	SEC. <u>22</u>	TWP. <u>9</u>	RANGE <u>36</u>	CALLED OUT	ON LOCATION	JOB START COUNTY <u>Stinson</u>	JOB FINISH STATE <u>Ks.</u>
LEASEE <u>Brennan</u>	WELL # <u>1-23</u>	LOCATION <u>Stinson 9 1/2 N</u>					
OLD OR NEW (circle one) <u>Wints</u>							

CONTRACTOR Murphy Drilling Ry #8 OWNER _____

TYPE OF JOB Surface
HOLE SIZE 12 1/4 T.D. 263
CASING SIZE F 5 1/8 DEPTH 263

TUBING SIZE _____ DEPTH _____

DRILL PIPE _____ DEPTH _____

TOOL _____ DEPTH _____

PRES. MAX _____ MINIMUM _____

MEAS. LINE _____ SHOE JOINT _____

CEMENT LEFT IN CSG. 15' PERFS. _____

DISPLACEMENT 1579 bbl

EQUIPMENT _____

PUMP TRUCK CEMENTER Shane

417 HELPER Heath

BULK TRUCK _____

344 DRIVER Kevin Gabe

BULK TRUCK _____

_____ DRIVER _____

REMARKS: _____

Ran 8 1/2 h. B. Hon. Est Circulator

Mixed 185 5/15

Cement Circulated!

CHARGE TO: Murphy Drilling

STREET _____

CITY _____ STATE _____ ZIP _____

TOTAL 1675.00

PLUG & FLOAT EQUIPMENT _____

TOTAL _____

SALES TAX (if Any) _____

TOTAL CHARGES _____

DISCOUNT _____ IF PAID IN 30 DAYS _____

PRINTED NAME Robey Farr

SIGNATURE Robey Farr

Thanks!

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.



PO BOX 31 Russell, KS 67665

Voice: (785) 483-3887
 Fax: (785) 483-5566

Acctg

rec'd
 cc-2-1
 Scamling

INVOICE

Invoice Number: 128208
 Invoice Date: Aug 8, 2011
 Page: 1

Federal Tax I.D.#: 20-5975804

Bill To:
 Murfin Drig. Co., Inc.
 250 N. Water
 STE #300
 Wichita, KS 67202

USED FOR IC 103
 APPROVED [Signature]

Customer ID	Well Name/# or Customer P.O.	Payment Terms
Murfin	Bixenman #1-23	Net 30 Days
Job Location	Camp Location	Service Date
KS1-02	Oakley	Aug 8, 2011
		Due Date
		9/7/11

Quantity	Item	Description	Unit Price	Amount
400.00	MAT	AMD	23.55	9,420.00
3.50	MAT	Cla-Pro	31.25	109.38
500.00	MAT	WFR-2	1.27	635.00
447.00	SER	Handling	2.25	1,005.75
25.00	SER	Mileage	49.17	1,229.25
1.00	SER	Disposal Well (Production)	2,125.00	2,125.00
50.00	SER	Heavy Vehicle Mileage	7.00	350.00
1.00	SER	Manifold Head Rental	200.00	200.00
50.00	SER	Light Vehicle Mileage	4.00	200.00
1.00	EQP	5 1/2 Packer Shoe	2,316.00	2,316.00
1.00	EQP	5 1/2 Latch Down Plug	277.00	277.00
2.00	EQP	5 1/2 Baskets	337.00	674.00
5.00	EQP	5 1/2 Centalizers	49.00	245.00
1.00	CEMENTER	LaRene Wentz		
1.00	EQUIP OPER	Darren Racette		
1.00	OPER ASSIST	Ethan Glassman		

Subtotal	18,786.38
Sales Tax	1,135.14
Total Invoice Amount	19,921.52
Payment/Credit Applied	
TOTAL	19,921.52

ALL PRICES ARE NET, PAYABLE
 30 DAYS FOLLOWING DATE OF
 INVOICE. 1 1/2% CHARGED
 THEREAFTER. IF ACCOUNT IS
 CURRENT, TAKE DISCOUNT OF

\$ 6575.24

ONLY IF PAID ON OR BEFORE
 Sep 2, 2011

ALLIED CEMENTING CO., LLC. 043380

Federal Tax I.D.# 20-5975804

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

SERVICE POINT:
Dakota, Ks

DATE <i>8-8-11</i>	SEC. <i>23</i>	TWP. <i>9</i>	RANGE <i>30</i>	CALLED OUT	ON LOCATION <i>8:00 am</i>	JOB START <i>1:00 pm</i>	JOB FINISH <i>11:00 am</i>
LEASE <i>Birkenman</i>	WELL # <i>1-23</i>	LOCATION <i>Girneil, Ks 9142</i>			COUNTY- <i>Sheridan</i>	STATE <i>Ks</i>	
OLD OR <input checked="" type="radio"/> NEW (Circle one)				OWNER <i>same</i>			

CONTRACTOR *Murfin #8*
 TYPE OF JOB *Disposal well*
 HOLE SIZE *7 7/8* T.D. *4630'*
 CASING SIZE *5 1/2* DEPTH *2540.93*
 TUBING SIZE DEPTH
 DRILL PIPE DEPTH
 TOOL DEPTH
 PRES. MAX MINIMUM
 MEAS. LINE SHOE JOINT *21.89*
 CEMENT LEFT IN CSG. *21.89*
 PERFS.

DISPLACEMENT *59.95 bbl*
 EQUIPMENT
 PUMP TRUCK CEMENTER *harve*
 # *431* HELPER *Darren*
 BULK TRUCK DRIVER *Ethan*
 # DRIVER

COMMON @
 POZMIX @
 GEL @
 CHLORIDE @
 ASC @
AMD 4005ks @ 2355 9420.00
Claypro 3leged @ 31.25 107.58
WFR-2 500gal @ 1.27 635.00
 HANDLING *447 sks @ 2.25 1005.75*
 MILEAGE *118.3k/mile 1272.25*
 TOTAL *12377.58*

REMARKS:
Pump 15 bbl claypro, mix 500gal WFR-2
Pump 2001 claypro, using 1000 more 500gal
Plug monohole 15 sks, approx 3555.99
down 8 7/8 casing. Displace with
15 bbl claypro, 44.5 bbl water
Cement did not circulate.
Thank you

CHARGE TO: *Murfin Drilling Co.*
 STREET
 CITY STATE ZIP
 TOTAL *2825.00*

PLUG & FLOAT EQUIPMENT
(IR) - Pac Ker shoe @ 236.00
(IR) - 1-hatchdown plug @ 272.00
(IR) - 2-Baskets @ 332.00 674.00
(IR) - 5-Centralizers @ 47.00 235.00

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

ALLIED CEMENTING CO., LLC. 035990

Federal Tax I.D.# 20-5975804

REMIT TO P.O. BOX 31
RUSSELLVILLE, MSAS 67665

BACKSIDE

SERVICE POINT:

Backside

DATE	9/19/11	SEC	23	TWP	7	RANGE	30	CALLED OUT	ON LOCATION	JOB START	JOB FINISH
LEASE	<u>Bixemnon</u>	WELL #	<u>123</u>	LOCATION	<u>Grinnell 7/4 N W 1/4</u>					COUNTY	STATE
OLD OR NEW (Circle one)											

CONTRACTOR AMEC OWNER Same

TYPE OF JOB 1" Back Side Cement to Surface

HOLE SIZE T.D. CEMENT AMOUNT ORDERED 100 SKS AMD

CASING SIZE DEPTH

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG.

PERFS.

DISPLACEMENT EQUIPMENT

PUMP TRUCK # <u>122</u>	CEMENTER <u>Alan</u>	COMMON @
HELPER <u>Wayne</u>		POZMIX @
BULK TRUCK # <u>401</u>	DRIVER <u>Tony</u>	GEL @
		CHLORIDE @
BULK TRUCK #	DRIVER	ASC @
		<u>AMD 42 SKS</u> @ <u>0325</u>
		<u>989</u> @

HANDLING 112 SKS @ 2 = 344

MILEAGE 110 SK m.v. @ 308 = 344

TOTAL 1641

REMARKS: AMD 42 SKS AMD blown 7/4" TO
Cement to cement to surface
Cement 42 SKS
Tony Wayne
Alan Wayne, Tony

DEPTH OF JOB

PUMP TRUCK CHARGE 1125

EXTRA FOOTAGE @

MILEAGE 25 X 2 @ 700 = 350

MANIFOLD 25 X 2 17 Vehicle @ 450 = 900

TOTAL 1675

CHARGE TO: Mr. F.W. Dilling

STREET

CITY STATE ZIP

PLUG & FLOAT EQUIPMENT

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

PRINTED NAME

SIGNATURE [Signature]

TOTAL CHARGES

DISCOUNT

IF PAID IN 30 DAYS