



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
_____ Perforate _____ Protect Casing _____ Plug Back TD _____ Plug Off Zone				

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD: Size: _____ Set At: _____ Packer At: _____ Liner Run: Yes No

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

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
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DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____ <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: _____ _____
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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

June 13, 2011

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

Re: ACO1
API 15-051-26089-00-00
Hagen 1-12
SW/4 Sec.12-12S-20W
Ellis 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 Hagen #1-12 1550' FSL 1240' FWL Sec. 12-T12S-R20W 2143' KB							MDCI Freida #1-13 2050' FSL 2310' FWL Sec. 13-T12S-R20W 2265' KB	
Formation	Sample top	Datum	Ref	Log tops	Datum	Ref	Log tops	Datum
Anhydrite	1506	+637	+7	1505	+638	+8	1635	+630
B/Anhydrite	1555	+588	+7	1553	+590	+9	1684	+581
Topeka	3192	-1049	-7	3191	-1048	-6	3308	-1042
Deer Creek	3247	-1104	-8	3243	-1100	-4	3361	-1096
Lecompton	3307	-1164	-4	3306	-1163	-3	3425	-1160
Heebner	3417	-1274	-3	3416	-1273	-2	3536	-1271
Lansing	3458	-1315	Flat	3458	-1315	Flat	3580	-1315
BKC	3695	-1552	+2	3701	-1558	-5	3818	-1553
Marmaton	3708	-1565	+7	3709	-1566	+1	3832	-1567
Pawnee	3739	-1596	-8	3746	-1603	-14	3854	-1589
Arbuckle	3800	-1657	+34	3829	-1686	+5	3956	-1691
RTD	3880	-1737					4025	-1760
LTD				3880	-1737		4028	-1763



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Drilling Co Inc

250 N Water Ste 300
Wichita Ks 67202

ATTN: Scott Robinson

Hagen # 1-12

12-12-20-Ellis-Ks

Job Ticket: 041681

DST#: 1

Test Start: 2011.02.18 @ 12:28:57

GENERAL INFORMATION:

Formation: **Oread/Lansing A**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:26:57

Time Test Ended: 20:28:27

Test Type: Conventional Bottom Hole

Tester: Dan Bangle

Unit No: 38

Interval: 3361.00 ft (KB) To 3480.00 ft (KB) (TVD)

Reference Elevations: 2143.00 ft (KB)

Total Depth: 3480.00 ft (KB) (TVD)

2138.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8354

Inside

Press @ Run Depth: 280.97 psig @ 3364.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.02.18

End Date:

2011.02.18

Last Calib.:

2011.02.18

Start Time: 12:28:58

End Time:

20:28:27

Time On Btm:

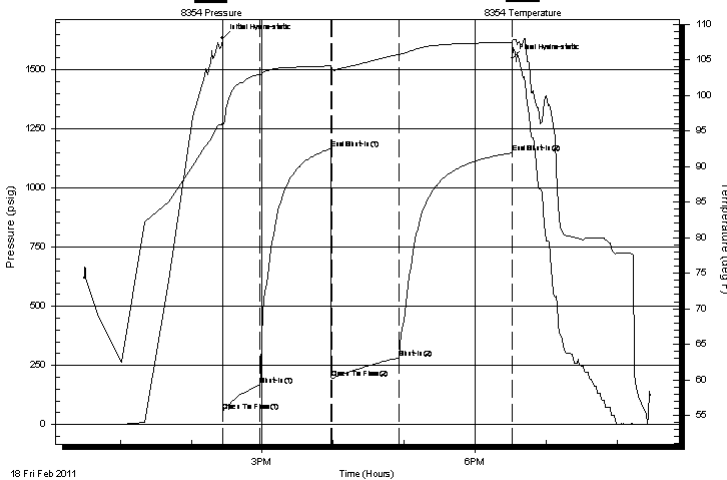
2011.02.18 @ 14:26:27

Time Off Btm:

2011.02.18 @ 18:31:27

TEST COMMENT: IF-Strong B-B in 4 min
IS-Strong B-B in 18 min
FF-Strong B-B in 6 min
FS-Strong B-B in 9 min

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1632.35	96.16	Initial Hydro-static
1	57.66	95.74	Open To Flow (1)
31	166.64	102.88	Shut-In(1)
92	1166.95	104.15	End Shut-In(1)
93	196.63	103.74	Open To Flow (2)
149	280.97	105.73	Shut-In(2)
245	1148.42	107.47	End Shut-In(2)
245	1548.36	107.64	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
185.00	OCgsyM 5g 20%o 75%m	2.32
120.00	OCgsyM 10%g 40%o 50%m	1.68
375.00	CGsyO 20%g 80%o	5.26
0.00	1485 GIP	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

Hagen # 1-12

250 N Water Ste 300
Wichita Ks 67202

12-12-20-Ellis-Ks

Job Ticket: 041681

DST#: 1

ATTN: Scott Robinson

Test Start: 2011.02.18 @ 12:28:57

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

36 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.40 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2800.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
185.00	OCCsyM 5g 20%o 75%m	2.322
120.00	OCCsyM 10%g 40%o 50%m	1.683
375.00	CGsyO 20%g 80%o	5.260
0.00	1485 GIP	0.000

Total Length: 680.00 ft

Total Volume: 9.265 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

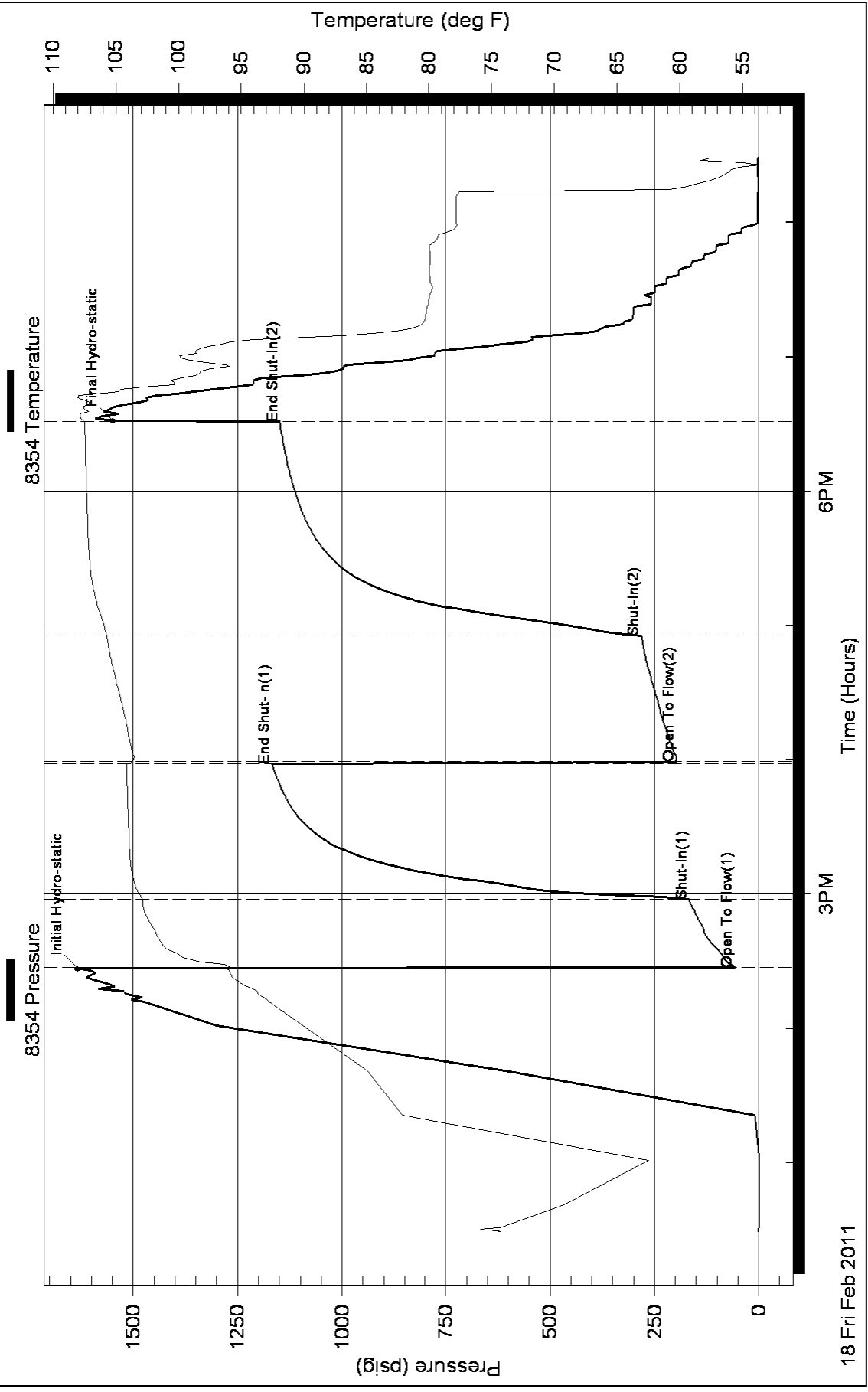
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Drilling Co Inc

250 N Water Ste 300
Wichita Ks 67202

ATTN: Scott Robinson

Hagen # 1-12

12-12-20-Ellis-Ks

Job Ticket: 041682

DST#: 2

Test Start: 2011.02.19 @ 04:20:25

GENERAL INFORMATION:

Formation: **C-D LKC**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:55:25

Time Test Ended: 10:10:55

Test Type: Conventional Bottom Hole

Tester: Dan Bangle

Unit No: 38

Interval: 3480.00 ft (KB) To 3530.00 ft (KB) (TVD)

Total Depth: 3530.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2143.00 ft (KB)

2138.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8354 Inside

Press @ RunDepth: 37.31 psig @ 3483.00 ft (KB)

Start Date: 2011.02.19

End Date: 2011.02.19

Start Time: 04:20:26

End Time: 10:10:55

Capacity: 8000.00 psig

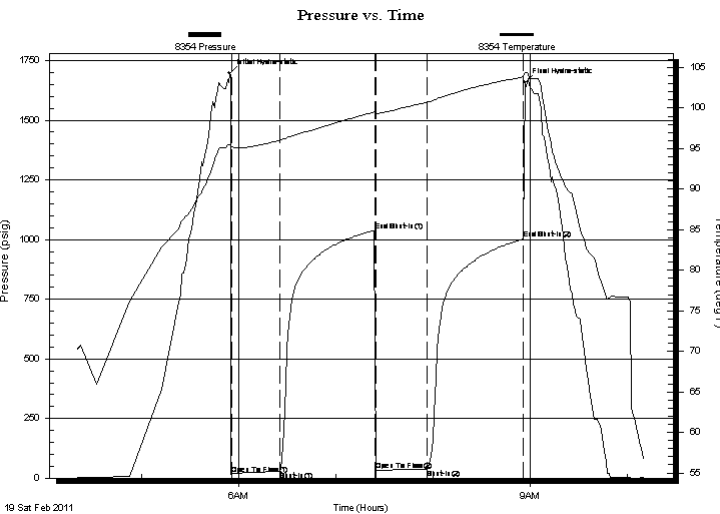
Last Calib.: 2011.02.19

Time On Btm: 2011.02.19 @ 05:54:25

Time Off Btm: 2011.02.19 @ 08:56:55

TEST COMMENT: IF-Weak steady 1/4" blow

FF-Weak steady surface blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1696.62	95.53	Initial Hydro-static
1	17.71	95.02	Open To Flow (1)
31	27.59	96.01	Shut-In(1)
90	1037.95	99.52	End Shut-In(1)
91	32.76	99.32	Open To Flow (2)
122	37.31	100.73	Shut-In(2)
182	1002.33	103.84	End Shut-In(2)
183	1658.92	104.39	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
45.00	Drig Mud	0.36

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co Inc

Hagen # 1-12

250 N Water Ste 300
Wichita Ks 67202

12-12-20-Ellis-Ks

Job Ticket: 041682

DST#: 2

ATTN: Scott Robinson

Test Start: 2011.02.19 @ 04:20:25

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: 51.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.40 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2800.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
45.00	Drig Mud	0.358

Total Length: 45.00 ft Total Volume: 0.358 bbl

Num Fluid Samples: 0

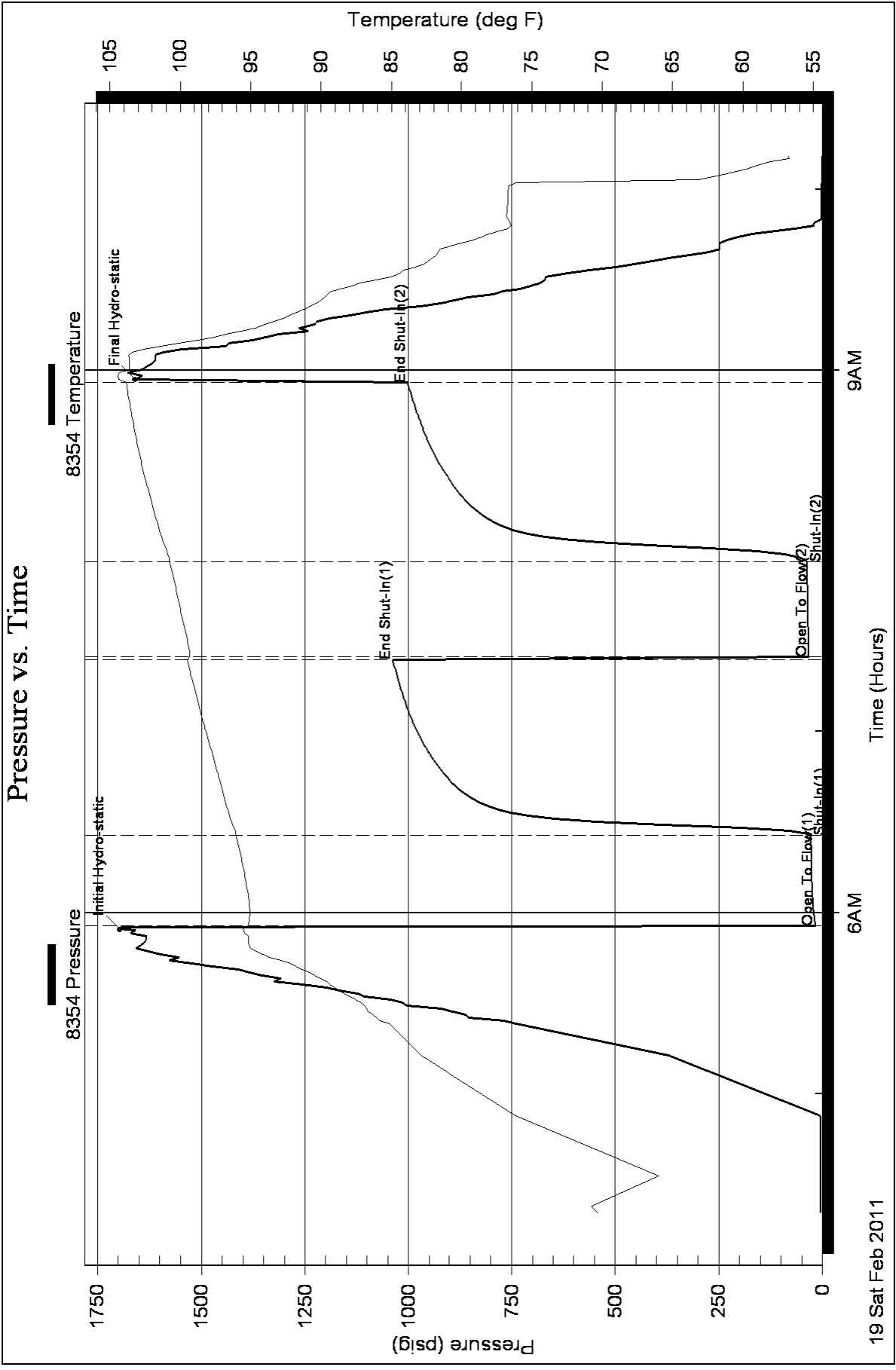
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Drilling Co Inc

250 N Water Ste 300
Wichita Ks 67202

ATTN: Scott Robinson

Hagen # 1-12

12-12-20-Ellis-Ks

Job Ticket: 041683

DST#: 3

Test Start: 2011.02.19 @ 15:40:01

GENERAL INFORMATION:

Formation: **E-F LKC**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:14:01

Time Test Ended: 21:30:31

Test Type: Conventional Bottom Hole

Tester: Dan Bangle

Unit No: 38

Interval: 3525.00 ft (KB) To 3552.00 ft (KB) (TVD)

Reference Elevations: 2143.00 ft (KB)

Total Depth: 3552.00 ft (KB) (TVD)

2138.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8354 Inside

Press @ Run Depth: 30.83 psig @ 3527.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.02.19

End Date:

2011.02.19

Last Calib.:

2011.02.19

Start Time: 15:40:02

End Time:

21:30:31

Time On Btm:

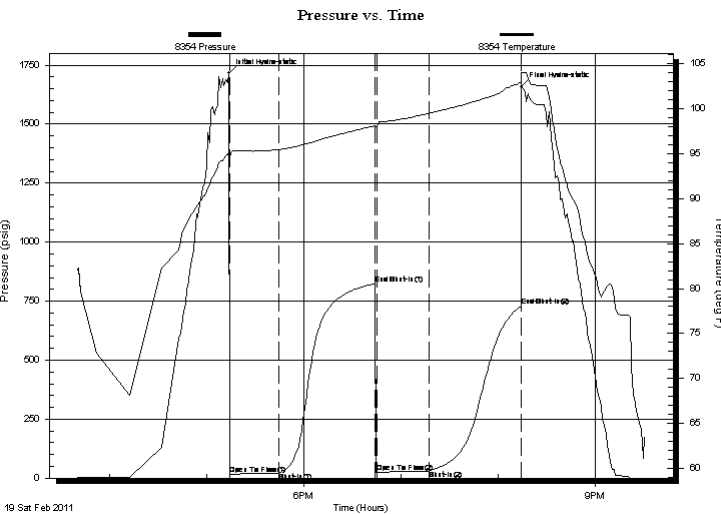
2011.02.19 @ 17:13:31

Time Off Btm:

2011.02.19 @ 20:14:31

TEST COMMENT: IF-Weak steady 1/4" blow

FF-Weak steady surface blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1715.32	95.12	Initial Hydro-static
1	16.15	94.37	Open To Flow (1)
31	22.66	95.44	Shut-In(1)
91	823.55	98.09	End Shut-In(1)
92	25.74	97.99	Open To Flow (2)
124	30.83	99.45	Shut-In(2)
181	729.13	102.85	End Shut-In(2)
181	1657.51	103.95	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	Drig Mud	0.10
1.00	CO	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

Hagen # 1-12

250 N Water Ste 300
Wichita Ks 67202

12-12-20-Ellis-Ks

Job Ticket: 041683

DST#: 3

ATTN: Scott Robinson

Test Start: 2011.02.19 @ 15:40:01

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:

bbbl

Water Loss: 6.00 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5700.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	Drig Mud	0.098
1.00	CO	0.005

Total Length: 21.00 ft Total Volume: 0.103 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

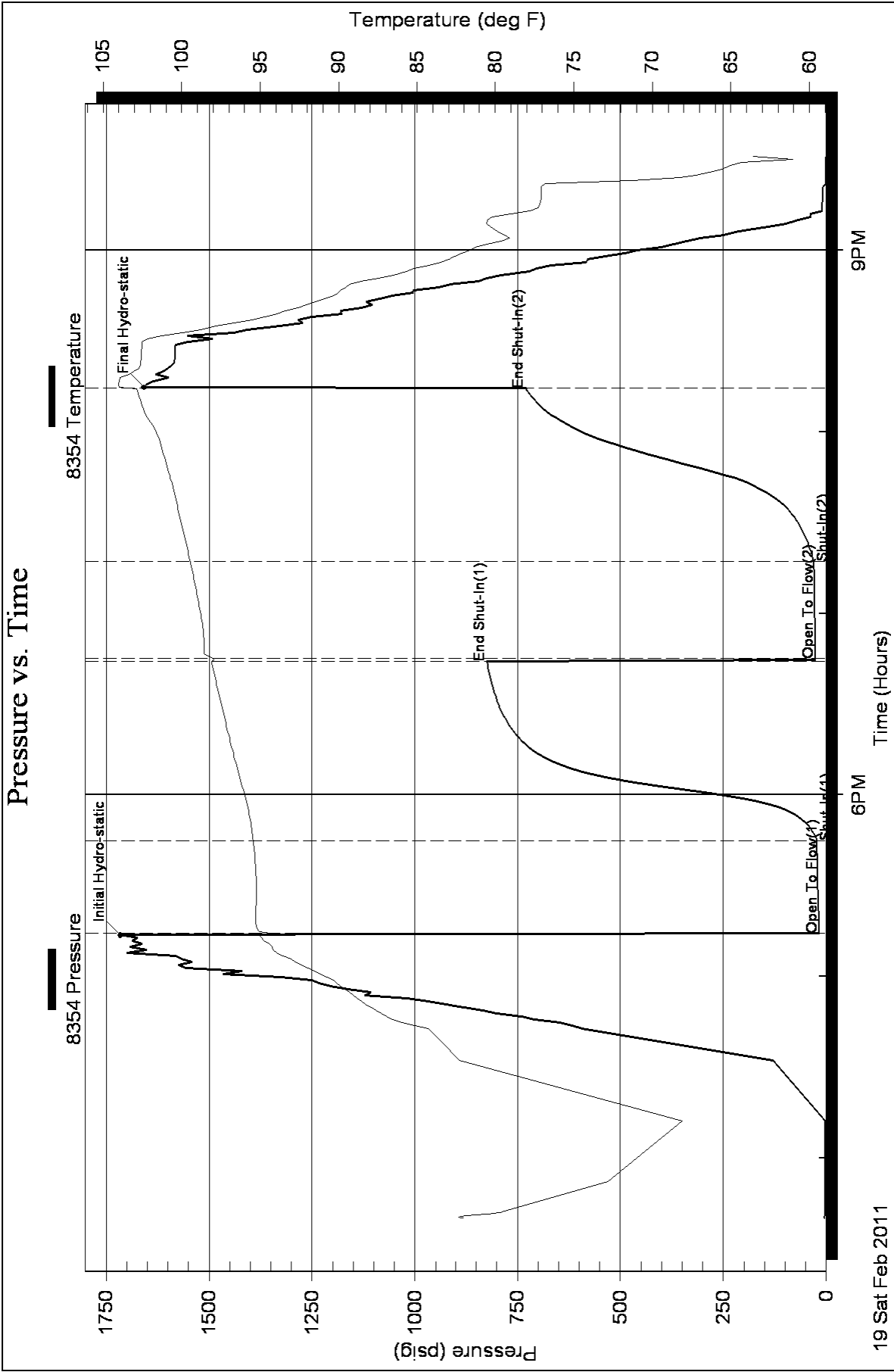
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Drilling Co Inc

250 N Water Ste 300
Wichita Ks 67202

ATTN: Scott Robinson

Hagen # 1-12

12-12-20-Ellis-Ks

Job Ticket: 041684

DST#: 4

Test Start: 2011.02.20 @ 04:54:18

GENERAL INFORMATION:

Formation: **G-H LKC**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:28:28

Time Test Ended: 10:45:48

Test Type: Conventional Bottom Hole

Tester: Dan Bangle

Unit No: 38

Interval: 3548.00 ft (KB) To 3614.00 ft (KB) (TVD)

Reference Elevations: 2143.00 ft (KB)

Total Depth: 3614.00 ft (KB) (TVD)

2138.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8354 Inside

Press @ Run Depth: 30.15 psig @ 3551.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.02.20

End Date:

2011.02.20

Last Calib.:

2011.02.20

Start Time: 05:04:18

End Time:

10:45:48

Time On Btm:

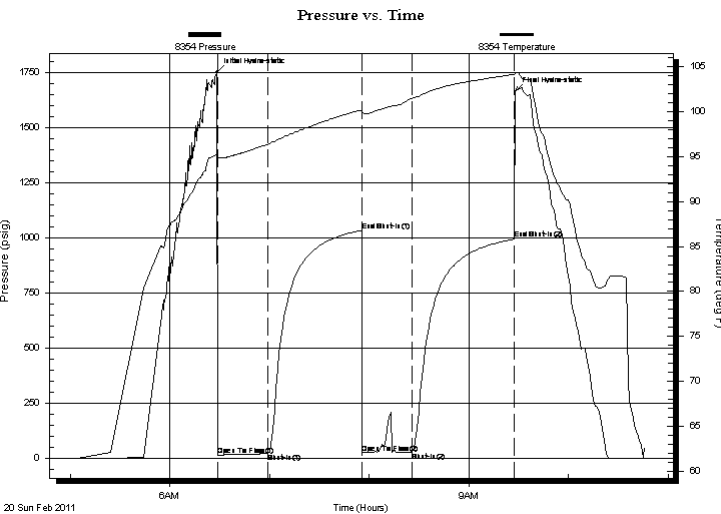
2011.02.20 @ 06:28:18

Time Off Btm:

2011.02.20 @ 09:27:48

TEST COMMENT: IF-Weak steady surface blow

FF-No blow { Plugging]



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1750.31	95.22	Initial Hydro-static
1	15.88	94.65	Open To Flow (1)
31	21.88	96.38	Shut-In(1)
87	1033.73	100.18	End Shut-In(1)
88	25.86	99.87	Open To Flow (2)
118	30.15	101.46	Shut-In(2)
179	994.51	104.14	End Shut-In(2)
180	1664.27	104.26	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	Drig Mud	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

Hagen # 1-12

250 N Water Ste 300
Wichita Ks 67202

12-12-20-Ellis-Ks

Job Ticket: 041684

DST#: 4

ATTN: Scott Robinson

Test Start: 2011.02.20 @ 04:54:18

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:

bbbl

Water Loss: 6.00 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5700.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	Drig Mud	0.049

Total Length: 10.00 ft Total Volume: 0.049 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

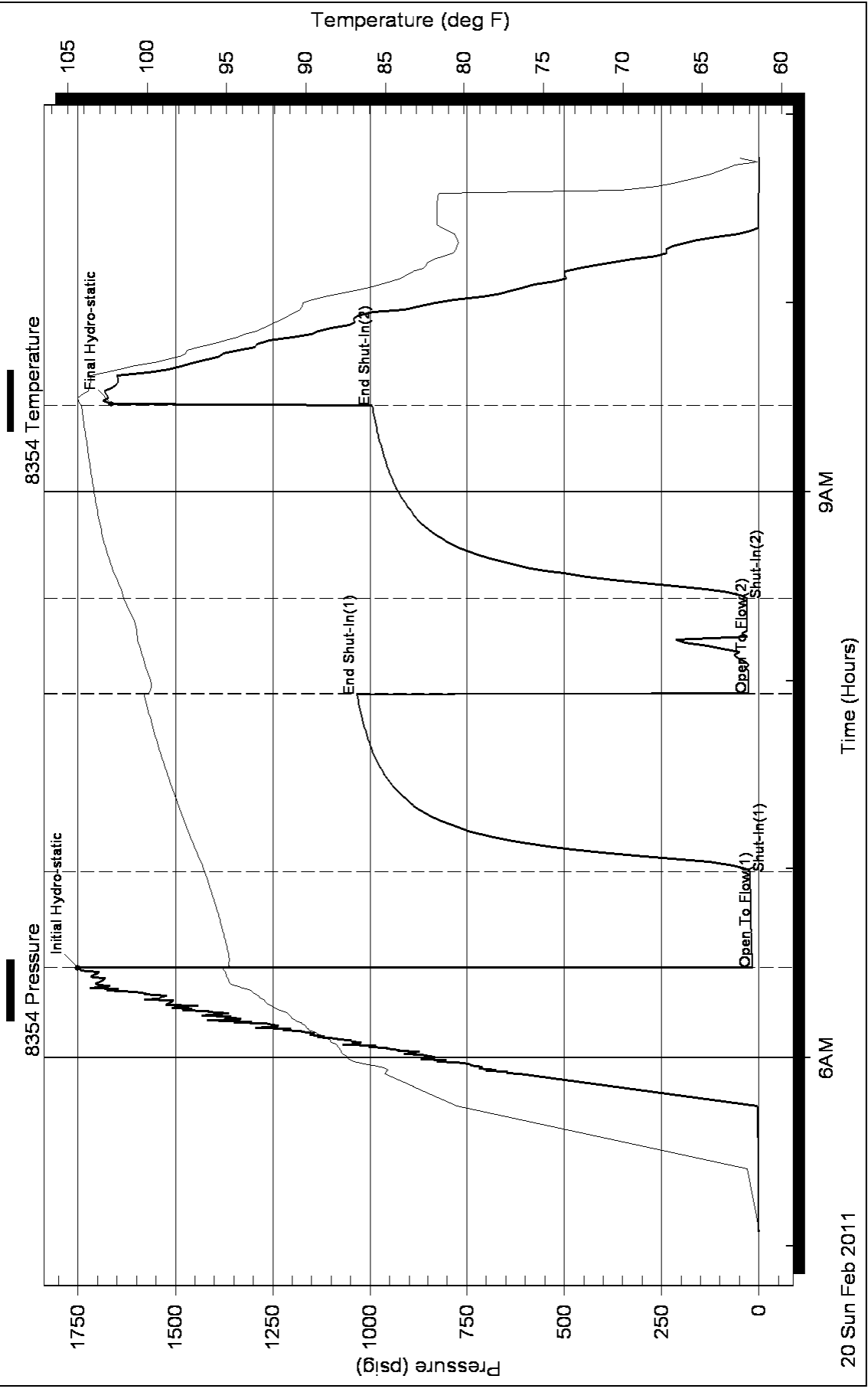
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Co Inc

250 N Water Ste 300
Wichita Ks 67202

ATTN: Scott Robinson

Hagen # 1-12

12-12-20-Ellis-Ks

Job Ticket: 041685

DST#: 5

Test Start: 2011.02.20 @ 19:50:03

GENERAL INFORMATION:

Formation: **I-J-K LKC**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:29:33

Time Test Ended: 02:00:33

Test Type: Conventional Bottom Hole

Tester: Dan Bangle

Unit No: 38

Interval: 3612.00 ft (KB) To 3680.00 ft (KB) (TVD)

Reference Elevations: 2143.00 ft (KB)

Total Depth: 3680.00 ft (KB) (TVD)

2138.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8354 Inside

Press @ Run Depth: 22.82 psig @ 3615.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.02.20

End Date:

2011.02.21

Last Calib.:

2011.02.21

Start Time: 20:00:03

End Time:

02:00:33

Time On Btm:

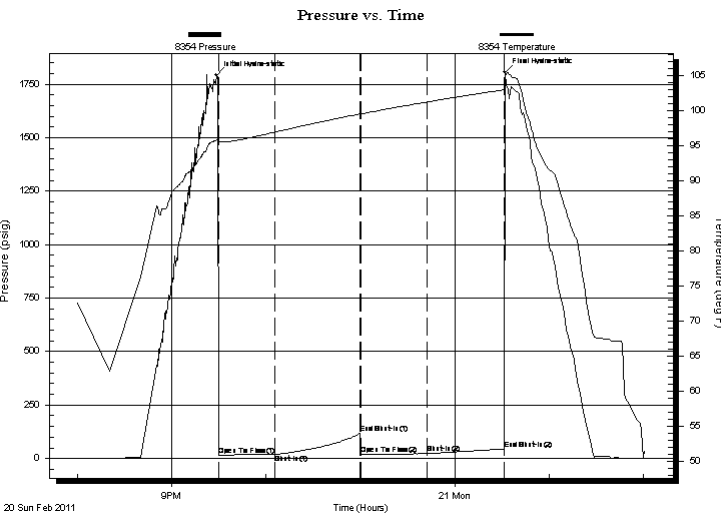
2011.02.20 @ 21:28:13

Time Off Btm:

2011.02.21 @ 00:31:33

TEST COMMENT: IF-Weak steady 1/4" blow

FF-No blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1792.41	95.74	Initial Hydro-static
2	16.44	95.10	Open To Flow (1)
38	18.99	96.90	Shut-In(1)
92	116.04	99.50	End Shut-In(1)
92	20.41	99.47	Open To Flow (2)
134	22.82	101.19	Shut-In(2)
183	45.11	102.93	End Shut-In(2)
184	1805.24	104.66	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	Drig Mud w/show of oil in tool	0.07

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co Inc

Hagen # 1-12

250 N Water Ste 300
Wichita Ks 67202

12-12-20-Ellis-Ks

Job Ticket: 041685

DST#: 5

ATTN: Scott Robinson

Test Start: 2011.02.20 @ 19:50:03

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: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.20 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 9900.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	Drig Mud w/show of oil in tool	0.074

Total Length: 15.00 ft Total Volume: 0.074 bbl

Num Fluid Samples: 0

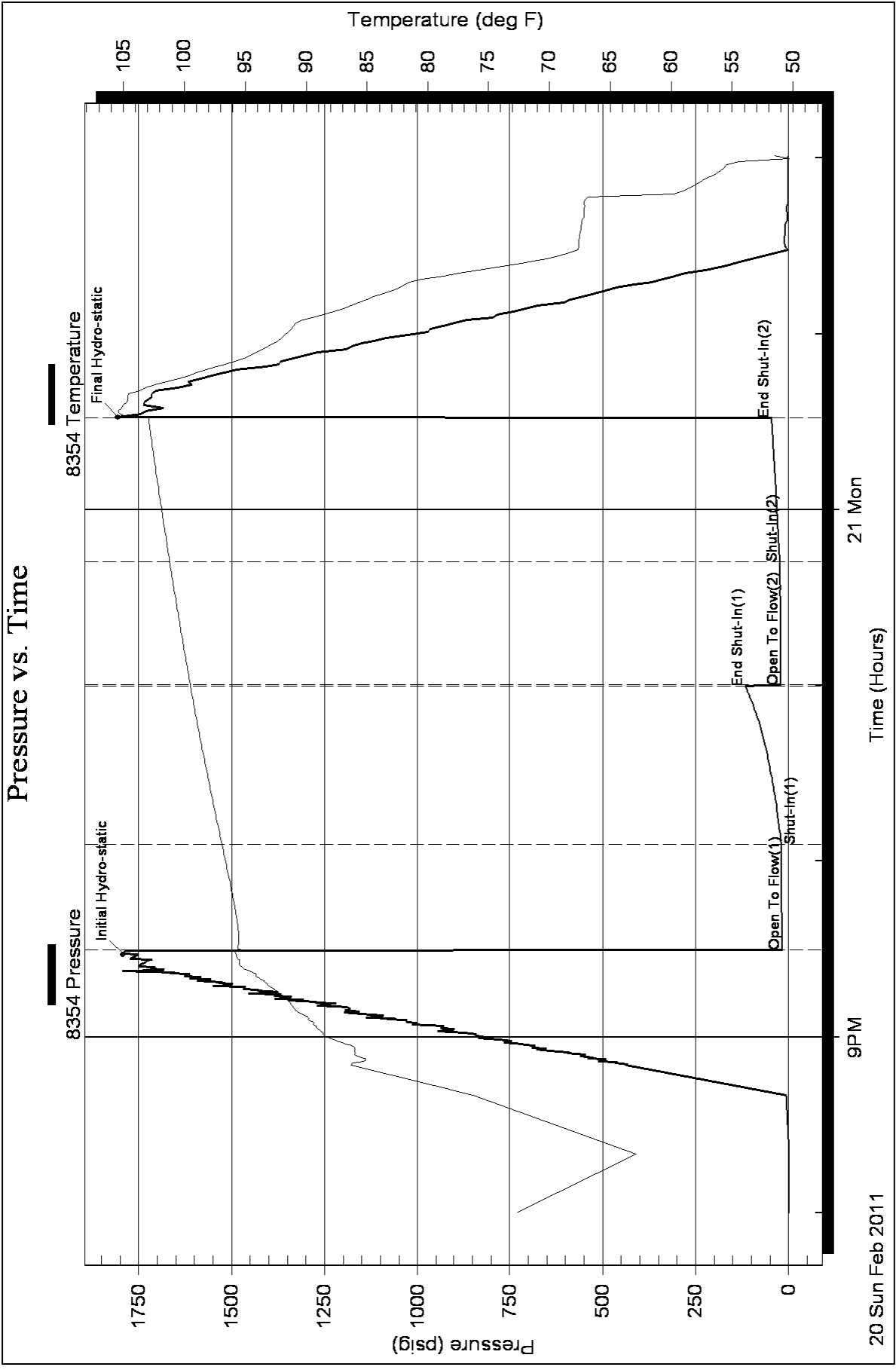
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



Accty —

cc: WF
cc: LR p.1
Scan Liz

Date: 3/15/2011
Invoice # 4932

P.O.#:

Due Date: 4/14/2011

Division: Russell



QUALITY OILWELL CEMENTING, INC.

PO Box 32 - 740 West Wichita Ave, Russell KS 67665
Phone: 785-324-1041 fax: 785-483-1087
Email: cementing@ruraltel.net

Invoice

Contact:
Murfin Drilling Company
Address/Job Location:
Murfin Drilling Company
P.O. Box 288
Russell Ks 67665

Reference:
HAGEN 1-12

USED FOR New Well Comp
APPROVED K R

Description of Work:
PORT COLLAR

Services / Items Included:	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 722.89	No				
non, MetsoBeads, Plater, Gel, FloSeal, Calcium)	200	\$ 4,036.44	Yes				
Bulk Truck Matl-Material Service Charge	200	\$ 422.22	No				
Pump Truck Mileage-Job to Nearest Camp	17	\$ 179.09	No				
Flo Seal	50	\$ 105.56	Yes				
Bulk Truck Mileage-Job to Nearest Bulk Plant	17	\$ 104.80	No				

Invoice Terms:

Net 30

SubTotal: \$ 5,570.99

Discount Available ONLY if Invoice is Paid & Received within listed terms of invoice: \$ (835.65)

SubTotal for Taxable Items: \$ 3,520.70

SubTotal for Non-Taxable Items: \$ 600.19

Total: \$ 4,735.34

Tax: \$ 221.80

6.30% Ellis County Sales Tax

Thank You For Your Business!

Amount Due: \$ 4,957.15

Applied Payments:

Balance Due: \$ 4,957.15

Past Due Invoices are subject to a service charge (annual rate of 24%)
This does not include any applicable taxes unless it is listed.
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QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 4932

Date	Sec.	Twp.	Range	County	State	On Location	Finish
3-11-11	12	12	20	Ellis	KS		12:00 p.m.
Lease Hagen	Well No. 1-12		Location 4/21 Buckeye Rd 4 W 1/4 N Eints				
Contractor Co Tools				Owner			
Type Job Port Collar				To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.			
Hole Size 7 7/8	T.D.		Charge To Martin Drlg				
Csg. 5 1/2	Depth		Street				
Tbg. Size 2 3/8	Depth		City State				
Tool	Depth		The above was done to satisfaction and supervision of owner agent or contractor.				
Cement Left in Csg.	Shoe Joint		Cement Amount Ordered 200 QMIX 1/4 # PLO				
Meas Line	Displace		USED 200K				
EQUIPMENT							
Pumptrk 1	No.	Cementer	Common 200				
		Helper					
Bulktrk	No.	Driver	Poz. Mix				
		Driver					
Bulktrk 3	No.	Driver	Gel.				
		Driver					
JOB SERVICES & REMARKS				Calcium			
Remarks:				Hulls			
Rat Hole				Salt			
Mouse Hole				Flowseal 50#			
Centralizers				Kol-Seal			
Baskets				Mud CLR 48			
D/V or Port Collar				CFL-117 or CD110 CAF 38			
Port Collar 1523 Test Casing to joint				Sand			
Open Tool & Est. Circulation Mix 200K				Handling 200			
Cement Circulated. Close Tool				Mileage			
Pressure casing to next hole				FLOAT EQUIPMENT			
Run 5 joints & wash clean				Guide Shoe			
				Centralizer			
				Baskets			
				AFU Inserts			
				Float Shoe			
				Latch Down			
				Pumptrk Charge port collar			
				Mileage 17			
				Tax			
				Discount			
				Total Charge			
Signature <i>[Signature]</i>							

Acety - cc: W F
cc: Loan p 1
Scan.biz



QUALITY OILWELL CEMENTING, INC.

PO Box 32 - 740 West Wichita Ave, Russell KS 67665

Phone: 785-324-1041 fax: 785-483-1087

Email: cementing@ruraitel.net

Date: 2/17/2010
Invoice # 4815

P.O.#:

Due Date: 3/19/2010

Division: Russell

Invoice

Contact:
Murfin Drilling Company
Address/Job Location:
Murfin Drilling Company
P.O. Box 288
Russell Ks 67665

USED FOR New Well Drilling
APPROVED [Signature]

Reference:
HAGEN 1-12

Description of Work:
SURFACE JOB

Services / Items Included:	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 754.32	No				
Common-Class A	150	\$ 2,015.65	Yes				
Bulk Truck Mat-Material Service Charge	158	\$ 348.06	No				
Pump Truck Mileage-Job to Nearest Camp	24	\$ 263.82	No				
Calcium Chloride	5	\$ 207.40	Yes				
Bulk Truck Mileage-Job to Nearest Bulk Plant	24	\$ 154.38	No				
Premium Gel (Bentonite)	3	\$ 53.79	Yes				

Invoice Terms:

Net 30

SubTotal: \$ 3,797.42
Discount Available ONLY if Invoice is Paid & Received within listed terms of invoice: \$ (569.61)

SubTotal for Taxable Items:	\$ 1,935.32
SubTotal for Non-Taxable Items:	\$ 651.32
Total:	\$ 3,227.81
Tax:	\$ 121.93

6.30% Ellis County Sales Tax

Thank You For Your Business!

Amount Due: \$ 3,349.73
Applied Payments:
Balance Due: \$ 3,349.73

Past Due Invoices are subject to a service charge (annual rate of 24%)
This does not include any applicable taxes unless it is listed.
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QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 4815

Date	2-14-11	Sec.	12	Twp.	12	Range	20	County	Ellis	State	KS	On Location		Finish	9:15pm	
Lease	HAGEN		Well No.	1-12		Location Ellis & Buckner Rd NE 1/4 E 1/2 N E 1/4										
Contractor	Martin 16							Owner								
Type Job	Surface							To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.								
Hole Size	12 1/4		T.D.	222		Charge To Martin Drilling										
Csg.	8 5/8		Depth	222		Street										
Tbg. Size			Depth			City										
Tool			Depth			State										
Cement Left in Csg.	15'		Shoe Joint			The above was done to satisfaction and supervision of owner agent or contractor.										
Meas Line			Displace	133C		Cement Amount Ordered 150 con 3% acc 2% gel										

EQUIPMENT

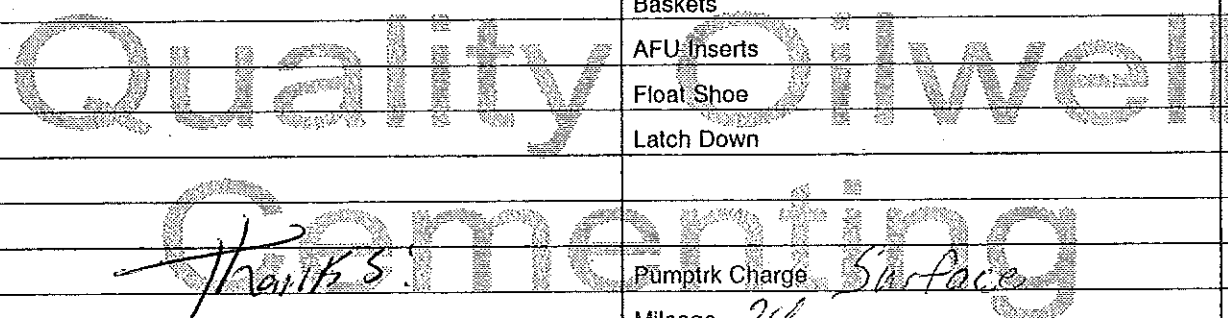
Pumptrk	9	No.	Cementer	Ching	Common	150
			Helper			
Bulktrk		No.	Driver	Paul / Rocky	Poz. Mix	
			Driver			
Bulktrk		No.	Driver	Aug	Gel.	3
			Driver			

JOB SERVICES & REMARKS

Remarks:	HAGEN #1-12	Calcium	5
Rat Hole		Hulls	
Mouse Hole		Salt	
Centralizers		Flowseal	
Baskets		Kol-Seal	
D/V or Port Collar		Mud CLR 48	
	8 5/8 on bottom Est Circulation	CFL-117 or CD110 CAF 38	
	Mix 150 SK & Displace	Sand	
	Cement Circulation	Handling	158
		Mileage	

FLOAT EQUIPMENT

Guide Shoe	
Centralizer	
Baskets	
AFU Inserts	
Float Shoe	
Latch Down	



Thanks!

Pumptrk Charge	Surface
Mileage	24

X Signature Aug Littel

Tax	
Discount	
Total Charge	



Accty - cc: WF cc: Leon p.l Scan - Liz

PAGE 1 of 1	CUST NO 1002852	INVOICE DATE 02/23/2011
INVOICE NUMBER 1718 - 90530063		

Pratt (620) 672-1201
 B MURFIN DRILLING
 I PO Box: 288
 L RUSSELL
 L KS US 67665
 T
 O ATTN:

J LEASE NAME Hagen 1-12
 O LOCATION
 B COUNTY Ellis
 S STATE KS
 I JOB DESCRIPTION Cement-New Well Casing/Pi
 T JOB CONTACT
 E

JOB #	EQUIPMENT #	PURCHASE ORDER NO.	TERMS	DUE DATE
40287727	20920		Net - 30 days	03/25/2011

	QTY	U of M	UNIT PRICE	INVOICE AMOUNT
For Service Dates: 02/22/2011 to 02/22/2011				
0040287727				
USED FOR <u>New well Casing</u>				
APPROVED <u>[Signature]</u>				
171803192A Cement-New Well Casing/Pi 02/22/2011 5 1/2" Longstring				
AA2 Cement	175.00	EA	12.75	2,231.25 T
60/40 POZ	50.00	EA	9.00	450.00 T
Cello-flake	44.00	EA	2.78	122.10 T
De-foamer (Powder)	33.00	EA	3.00	99.00 T
Salt (Fine)	822.00	EA	0.38	308.25 T
FLA-322	83.00	EA	5.62	466.87 T
Gilsonite	875.00	EA	0.50	439.69 T
5 1/2" Port Collar	1.00	EA	2,625.00	2,625.00
Latch Down Plug & Baffle 5 1/2" (Blue)	1.00	EA	300.00	300.00
Auto Fill Float Shoe 5 1/2" (Blue)	1.00	EA	270.00	270.00
Turbolizer 5 1/2" (Blue)	10.00	EA	82.50	825.00
5 1/2" Basket (Blue)	1.00	EA	217.50	217.50
Cement Scratchers Cable Type 5 1/2"	10.00	EA	56.25	562.50
Super Flush II	500.00	EA	1.15	573.75 T
Unit Mileage Charge-Pickups, Vans & Cars	100.00	HR	3.19	318.75
Heavy Equipment Mileage	200.00	MI	5.25	1,050.00
Proppant and Bulk Delivery Charges	1,040.00	MI	1.20	1,248.00
Depth Charge; 4001-5000'	1.00	HR	1,890.00	1,890.00
Blending & Mixing Service Charge	225.00	MI	1.05	236.25
Plug Container Utilization Charge	1.00	EA	187.50	187.50
Supervisor	1.00	HR	131.25	131.25

PLEASE REMIT TO:	SEND OTHER CORRESPONDENCE TO:	SUB TOTAL	14,552.66
BASIC ENERGY SERVICES, LP	BASIC ENERGY SERVICES, LP	TAX	295.53
PO BOX 841903	PO BOX 10460	INVOICE TOTAL	14,848.19
DALLAS, TX 75284-1903	MIDLAND, TX 79702		



BASICSM
ENERGY SERVICES
PRESSURE PUMPING & WIRELINE

10244 NE Hwy. 61
P.O. Box 8613
Pratt, Kansas 67124
Phone 620-672-1201

FIELD SERVICE TICKET
1718 03192 A

DATE _____ TICKET NO. _____

DATE OF JOB <u>2-22-11</u> DISTRICT <u>KANSAS</u>		NEW WELL <input checked="" type="checkbox"/> OLD WELL <input type="checkbox"/> PROD <input type="checkbox"/> INJ <input type="checkbox"/> WDW <input type="checkbox"/> CUSTOMER ORDER NO.:							
CUSTOMER <u>Murfin Drilling Co. Inc</u>		LEASE <u>Hagen</u>		WELL NO. <u>1-12</u>					
ADDRESS		COUNTY <u>Ellis</u> STATE <u>Kansas</u>							
CITY STATE		SERVICE CREW <u>A. Worth, K. Lesley JR.</u>							
AUTHORIZED BY		JOB TYPE: <u>5 1/2" Long String</u> <u>CDU</u>							
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM/PM	TIME
<u>28443 P.U.</u>	<u>1 1/2</u>						<u>2-22-11</u>		<u>700</u>
<u>33708-20920</u>	<u>1 1/2</u>					ARRIVED AT JOB	<u>2-22-11</u>	AM/PM	<u>915</u>
<u>19960-19918</u>	<u>1 1/2</u>					START OPERATION	<u>2-22-11</u>	AM/PM	<u>200</u>
						FINISH OPERATION	<u>2-22-11</u>	AM/PM	<u>330</u>
						RELEASED	<u>2-22-11</u>	AM/PM	<u>430</u>
						MILES FROM STATION TO WELL	<u>100-miles</u>		

CONTRACT CONDITIONS: (This contract must be signed before the job is commenced or merchandise is delivered).

The undersigned is authorized to execute this contract as an agent of the customer. As such, the undersigned agrees and acknowledges that this contract for services, materials, products, and/or supplies includes all of and only those terms and conditions appearing on the front and back of this document. No additional or substitute terms and/or conditions shall become a part of this contract without the written consent of an officer of Basic Energy Services LP.

SIGNED: _____
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
CP105	AA2 cement	SK	175		\$ 2975.00
CP103	60/40 P02	SK	50		\$ 500.00
CC102	cell flake	lb	44		\$ 162.82
CC106	Deformer	lb	33		\$ 132.00
CC111	Salt Fine	lb	822		\$ 411.00
CF129	FIA-322	lb	83		\$ 622.50
CC201	Gilsonite	lb	875		\$ 586.25
CE	5 1/2" Port Collar Blue	EA	1		\$ 3500.00
CF607	Latch Down Plug + Baffle 5 1/2" Blue	EA	1		\$ 400.00
CF1251	Auto Fill Float Shoe 5 1/2" Blue	EA	1		\$ 360.00
CF1651	Turbolizer 5 1/2" Blue	EA	10		\$ 1100.00
CF1901	5 1/2" Basket Blue	EA	1		\$ 290.00
CF2001	cement scratchers	EA	10		\$ 750.00
CC155	Super flush #	gal	500		\$ 765.00

CHEMICAL / ACID DATA:			

SUB TOTAL		
DLS		
SERVICE & EQUIPMENT	%TAX ON \$	
MATERIALS	%TAX ON \$	
TOTAL		

Mark Robben

SERVICE REPRESENTATIVE <u>A. Worth</u>	THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY:
--	---

(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

FIELD SERVICE ORDER NO.



BASICSM
ENERGY SERVICES
PRESSURE PUMPING & WIRELINE

10244 NE Hwy. 61
P.O. Box 8613
Pratt, Kansas 67124
Phone 620-672-1201

FIELD SERVICE TICKET
1718 03192 A

DATE _____ TICKET NO. _____

DATE OF JOB: 2-22-11		DISTRICT: KAN-100		NEW WELL <input checked="" type="checkbox"/> OLD WELL <input type="checkbox"/> PROD <input type="checkbox"/> INJ <input type="checkbox"/> WDW <input type="checkbox"/> CUSTOMER ORDER NO.:	
CUSTOMER: Mackay Drilling Co. Inc.		LEASE: Mackay		WELL NO.: 1-12	
ADDRESS:		COUNTY: Ellis		STATE: Kansas	
CITY:		STATE:		SERVICE CREW: A. Worth, K. L. L. J.R.	
AUTHORIZED BY:		JOB TYPE: 3/8" Long String			

EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	PM	TIME
28443 P11	1 1/2						2-22-11			7:00
33732-20920	1 1/2						2-22-11			7:15
19962 11918	1 1/2						2-22-11			7:21
							2-22-11			7:30
							2-22-11			7:50
						MILES FROM STATION TO WELL	100 miles			

CONTRACT CONDITIONS: (This contract must be signed before the job is commenced or merchandise is delivered).

The undersigned is authorized to execute this contract as an agent of the customer. As such, the undersigned agrees and acknowledges that this contract for services, materials, products, and/or supplies includes all of and only those terms and conditions appearing on the front and back of this document. No additional or substitute terms and/or conditions shall become a part of this contract without the written consent of an officer of Basic Energy Services LP.

SIGNED: _____
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
CP403	AA2 cement	sf	175		\$ 2975.00
CP123	4440 P02	sf	50		\$ 500.00
CC102	Cell Flare	lb	44		\$ 162.80
CC106	Oil Service	lb	33		\$ 132.00
CC111	S-11 Pipe	lb	322		\$ 411.00
CC129	F/A 302	lb	83		\$ 622.50
CC301	6.1 Service	lb	875		\$ 525.00
CE	3/8" Port Collar Blue	EA	4		\$ 3,500.00
CF607	1.5lb Down Plug/Baffle 3/8 Blue	EA	1		\$ 400.00
CF1051	Auto Fall Float 3/8 Blue	EA	1		\$ 360.00
CF1051	Indicator 5/8 Blue	EA	10		\$ 1100.00
CF1051	3/8 Basket Blue	EA	1		\$ 290.00
CF1051	cement scratches	EA	10		\$ 250.00
CC155	Super Chloride	gal	500		\$ 765.00

CHEMICAL / ACID DATA:			

SUB TOTAL		
SERVICE & EQUIPMENT	%TAX ON \$	
MATERIALS	%TAX ON \$	
TOTAL		

SERVICE REPRESENTATIVE: *A. Worth* THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: _____
(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

FIELD SERVICE ORDER NO. _____

Customer <i>Murfin Drilling Co Inc</i>	Lease No.	Date
Lease <i>Hagen</i>	Well # <i>1-12</i>	<i>2-22-11</i>
Field Order # <i>03192A</i>	Station <i>Pratt KS</i>	Casing <i>5/2</i>
Type Job <i>5/2" Long String.</i>	Depth <i>3876'</i>	County <i>Ellis</i>
	Formation <i>CMW TO 3880</i>	State <i>KS</i>
		Legal Description <i>12-12-20</i>

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size" <i>5/2</i>	Tubing Size	Shots/Ft		Acid		RATE	PRESS	ISIP
Depth <i>3876</i>	Depth	From	To	Pre Pad		Max		5 Min.
Volume <i>92881</i>	Volume	From	To	Pad		Min		10 Min.
Max Press <i>1500</i>	Max Press	From	To	Frac		Avg		15 Min.
Well Connection <i>PC</i>	Annulus Vol.	From	To			HHP Used		Annulus Pressure
Plug Depth <i>3854</i>	Packer Depth	From	To	Flush		Gas Volume		Total Load

Customer Representative <i>Mark Robin</i>	Station Manager <i>Scotty</i>	Treater <i>Allen</i>
Service Units <i>28443 33708 20920 19960 19918</i>		
Driver Names <i>Worth Keever Hosley JR Hunter</i>		

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<i>9:15 AM</i>					<i>on loc. Discuss Safety, Setup. Plan Job</i>
<i>9:30</i>					<i>Rig Laying down Drill Collars</i>
					<i>5/2 casing. Arrives on Location</i>
					<i>out of hole w/ Bit, Lay down Kelly</i>
<i>11:20</i>					<i>Rig up to Run 5/2 casing 15.5'</i>
					<i>start 5/2 casing, Shoe Joint</i>
					<i>21.97 w/ Float shoe, L.D. Baffle</i>
					<i>in collar, cent. 1-3-5-7-9-11-13-</i>
					<i>15-17-56, BASKET 57</i>
					<i>Port collar on 57 collar 15.25'</i>
<i>13:00</i>					<i>casing @ 3876' cir. + Recip. Pipe</i>
<i>2:30</i>	<i>200*</i>		<i>5</i>	<i>5</i>	<i>Pump 5 BBL H₂O</i>
			<i>12</i>	<i>5</i>	<i>Pump 12 BBL super flush TL</i>
			<i>5</i>	<i>5</i>	<i>Pump 5 BBL H₂O</i>
				<i>6</i>	<i>mix + Pump 17.5 sks AA2 @ 15.3#/gal</i>
			<i>43</i>		<i>Finish mixing cont, wash out Pump line</i>
<i>3:00</i>				<i>5</i>	<i>Release L.D. Plug. + Start Disp.</i>
				<i>5</i>	<i>caught Lift Pst. 67 BBLs out</i>
<i>3:15</i>	<i>1500*</i>		<i>92</i>	<i>4</i>	<i>Plug down - Release OK</i>
					<i>Plug Rat w/ 30 ks 60/40 Poz</i>
					<i>Plug Mouse Hole w/ 20 sks 60/40 Poz</i>
<i>4:30</i>					<i>wash up + Pack up. Job complete</i>

Jeff Christian

PETROLEUM GEOLOGIST

Wichita, Kansas

GEOLOGISTS' REPORT

DRILLING TIME AND SAMPLE LOG

OPERATOR	MURFIN DRILLING CO., INC.	ELEVATIONS	K8	2143'
LEASE	HAGEN #1-12	GL	2138'	
LOCATION	1550' FSL & 1240' FWL	MEASUREMENTS FROM K8		
SEC.	12 TNSP	RNG	20 W	
COUNTY	ELLIS	STATE	KANSAS	
FIELD	WILDCAT	CONDUCTOR	NONE	
API	15-051-26089	SURFACE	8 5/8" @ 222'	
CONTRACTOR	MURFIN DRILLING CO.	W/ 150 SX	Production 5 1/2" @	
DRILLING STARTED	02/14/11	COMPLETED	02/22/11	
WILD DISPLACED	2945'	WILD TYPE	CHEMICAL	
DRILLING TIME KEPT FROM	3100'	TO RTD		
SAMPLES SAVED FROM	3100'	TO RTD		
SAMPLES EXAMINED FROM	3100'	TO RTD		
GEOLOGICAL SUPERVISION FROM	3075'	TO RTD		

FORMATION NAME	LOG TOP	LOG DATUM	SAMPLE TOP	SAMPLE DATUM
ANHYDRITE	1504'	(+639)	1506'	(+637)
TOPEKA	3192'	(-1049)	3192'	(-1049)
HEEBNER	3415'	(-1272)	3417'	(-1274)
TORONTO	3440'	(-1297)	3440'	(-1297)
LANSING	3458'	(-1315)	3458'	(-1315)
BKC	3700'	(-1557)	3695'	(-1552)
PAWNEE	3746'	(-1603)	3739'	(-1596)
ARBUCKLE	3829'	(-1666)	3800'	(-1657)
TOTAL DEPTH	3880'	(-1737)	3880'	(-1737)

DATE	7:00 AM DEPTH	REMARKS
02/14/11	MIRT	Spud 5:00 pm
02/15/11	330'	Drlg. dev. 1/4 deg @ 222'
02/16/11	2095'	Drlg.
02/17/11	2810'	Drlg.
02/18/11	3452'	CFS dev. 1/2 deg. @ 3480'
02/19/11	3530'	OB w/ DST # 2
02/20/11	3614'	OB w/ DST # 4
02/21/11	3720'	Drlg RTD 3880' @ 7:30 pm dev. 1/2 deg.
02/22/11	3880'	Finish Logging 3:00 am

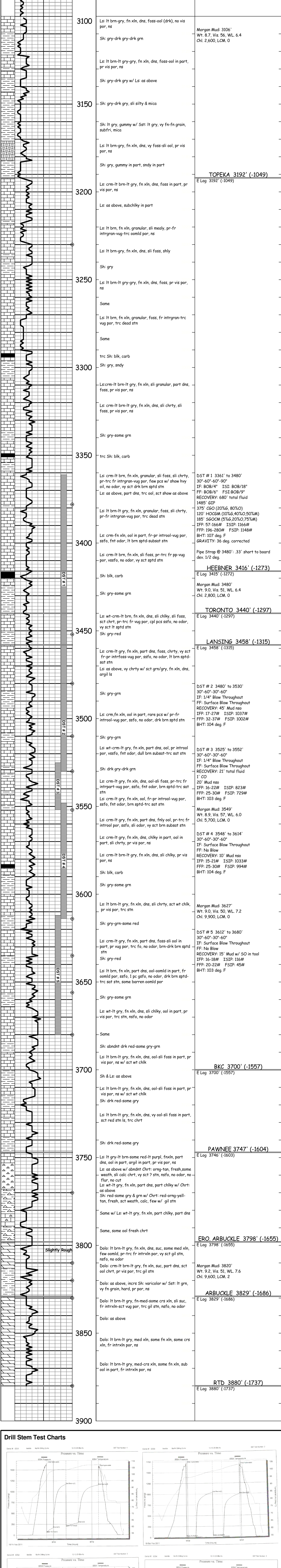
Remarks
5 1/2" production casing run to further test the Lansing/Kansas City 'A' zone and possibly the Oread formation.

Electric log measurements correlate about even to 1' 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

LITH	0	DRILL TIME (MIN/FT)	10	DEPTH (FEET)	SAMPLE DESCRIPTIONS	REMARKS
------	---	---------------------	----	--------------	---------------------	---------



Drill Stem Test Charts

