



KANSAS CORPORATION COMMISSION 1062489
OIL & GAS CONSERVATION DIVISION

Form ACO-1

June 2009

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

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

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

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

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

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

Spud Date or Recompletion Date Date Reached TD Completion Date or Recompletion Date

API No. 15 - _____

Spot Description: _____

_____ - _____ - _____ Sec. _____ Twp. _____ S. R. _____ East West

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite: _____

Operator Name: _____

Lease Name: _____ License #: _____

Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West

County: _____ Permit #: _____

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

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



1062489

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

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

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

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Submitted Electronically <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i> List All E. Logs Run:	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

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

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

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

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

Estimated Production Per 24 Hours	Oil 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> _____ <input type="checkbox"/> Other <i>(Specify)</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

August 31, 2011

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

Re: ACO1
API 15-193-20801-00-00
Soil 1-17
SE/4 Sec.17-10S-34W
Thomas 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 Soil #1-17 1700' FSL 1215' FEL Sec. 17-T10S-R34W 3237' KB							MDCI Steele 'A' #1-20 1760' FNL 1450' FEL Sec. 20-T10S-R34W 3238' KB	
Formation	Sample Top	Datum	Ref	Log Tops	Datum	Ref	Log Top	Datum
Anhydrite	2747	+490	-11	2744	+493	-8	2734	+501
B/Anhydrite	2777	+460	-4	2770	+467	-9	2762	+464
Topeka	3906	-669	-11	3903	-666	-8	3896	-658
Heebner	4122	-885	-11	4119	-882	-8	4112	-874
Lansing	4165	-928	-14	4160	-923	-9	4152	-914
Stark	4387	-1150	-6	4386	-1149	-5	4382	-1144
Fort Scott	4638	-1401	-17	4634	-1397	-13	4622	-1384
Johnson Zn	4713	-1476	-18	4709	-1472	-14	4696	-1458
Mississippi	4818	-1581	-51	4821	-1584	-54	4768	-1530
RTD	4875						4845	
LTD				4874			4845	

Thomas J. Funk
Petroleum Geologist
785-542-3359

Geologist's Report
Drilling Time and Sample Log

OPERATOR Murfin Drilling Co., Inc
LEASE Soil
FIELD Wildcat
LOCATION 1700' FSL & 1215' FEL
SEC. 17
COUNTY Thomas

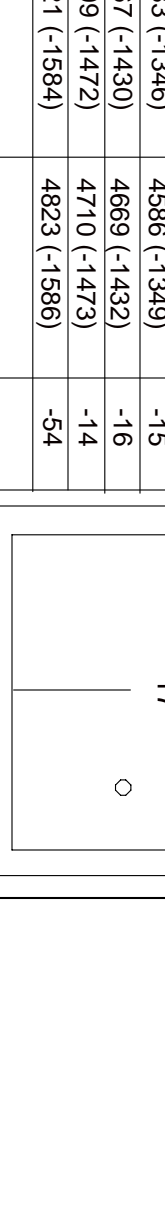
API 15-193-20801
WELL NO #1-17
ELEVATION
KB 3237
DF
GL 3226
Measurements Are All From **KB**

CASING RECORD
CONTRACTOR Murfin Drilling Co. Rig #2
COMP 8/17/2011
LOG TO 4874'
R/TD 4875'
SAMPLES SAVED FROM 3800 TO TD
DRILLING TIME KEPT FROM 3800 TO TD
SAMPLES EXAMINED FROM 3800 TO TD

GEOLOGICAL SUPERVISION FROM 3815 TO TD
MUD JP 3500
TYPE MUD Chemical

FORMATION	LOG TOP DATUM	SAMPLE TOP DATUM	STRUCT COMP
Anhydrite	2744 (+483)	2747 (+480)	-8
B/Anhydrite	2770 (+467)	2777 (+460)	-9
Topoka	3903 (+66)	3906 (+69)	-8
Heebner Sh	4119 (-882)	4122 (-885)	-9
Lansing	4160 (-923)	4161 (-928)	-8
Mancke Creek	4299 (-1062)	4303 (-1066)	-9
Stark Sh	4386 (-1149)	4387 (-1150)	-5
Marmaton	4475 (-1238)	4480 (-1233)	-10
Pawnee	4593 (-1346)	4596 (-1349)	-15
Carondelet Sh	4667 (-1430)	4669 (-1432)	-16
Johnson Zone	4709 (-1472)	4710 (-1473)	-14
Mississippi	4821 (-1584)	4823 (-1586)	-54

ELECTRICAL SURVEYS
Log-Tech
DIL
MEL
CNL/OCL BHCS

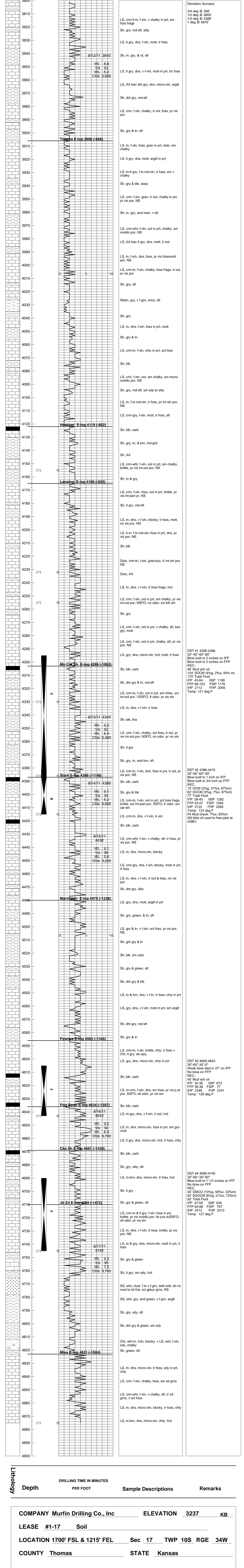


REFERENCE WELL FOR STRUCTURAL COMPARISON: Murfin Drilling Co. #1-20 Steele A. 1760' FNL & 1450' FEL sec. 20-10S-34W, Thomas Co, KS

Daily Progress	Bit Record							
Date	Depth	NOI	Size	Make	Type	Depth Out	Feet	Hours
8/8/11	Spud	1	12 1/4"	HTC	RR	268	268	2
8/9/11	268' WOC							
8/10/11	1807'	2	7 7/8"	HTC	502s	3589	3331	46
8/11/11	3400'	2	7 7/8"	HTC	G3X2C	4875	1276	60
8/12/11	3815'							
8/13/11	4317'							
8/14/11	4386'							
8/15/11	4415'							
8/16/11	4643'							
8/17/11	4745'							
8/18/11	4875' TD							

Remarks and Recommendations:
Based upon log analysis, DST recovery, and sample examination, it was recommended that the #1-17 Soil be plugged and abandoned.

Thomas Funk
Petroleum Geologist



COMPANY Murfin Drilling Co., Inc	ELEVATION 3237	KB
LEASE #1-17	Soil	
LOCATION 1700' FSL & 1215' FEL	Sec 17	TWP 10S RGE 34W
COUNTY Thomas	STATE Kansas	

Lithology



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

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

Soil #1-17

17/10s/34w Thomas KS

Job Ticket: 43781 **DST#: 1**
Test Start: 2011.08.14 @ 05:43:00

GENERAL INFORMATION:

Formation: **LKC "H - J"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 08:24:30
Time Test Ended: 14:16:30
Interval: **4295.00 ft (KB) To 4386.00 ft (KB) (TVD)**
Total Depth: 4386.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole
Tester: James Winder
Unit No: 46
Reference Elevations: 3237.00 ft (KB)
3226.00 ft (CF)
KB to GR/CF: 11.00 ft

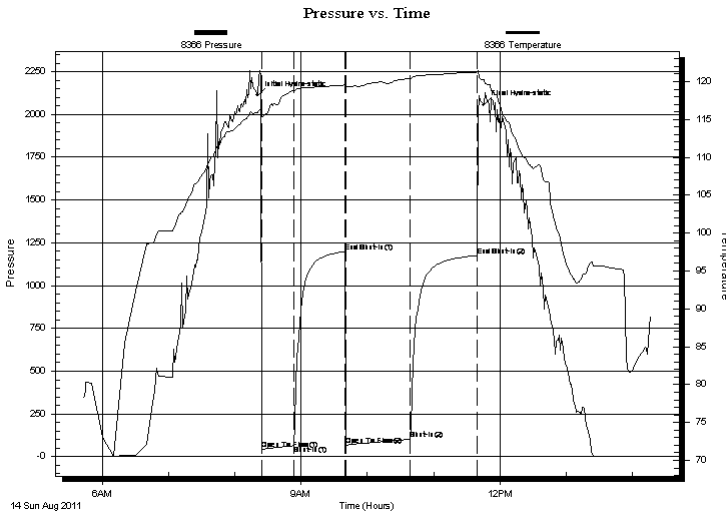
Serial #: 8366

Inside

Press @ Run Depth: 102.82 psig @ 4296.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2011.08.14 End Date: 2011.08.14 Last Calib.: 2011.08.14
Start Time: 05:43:05 End Time: 14:16:30 Time On Btm: 2011.08.14 @ 08:20:30
Time Off Btm: 2011.08.14 @ 11:45:30

TEST COMMENT: 30 - IF: Blow built to 2"
45 - IS: No blow back
60 - FF: Blow started at 4 min., built to 1 3/4"
60 - FS: No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2111.99	115.85	Initial Hydro-static
4	42.72	115.36	Open To Flow (1)
33	64.44	118.77	Shut-In(1)
80	1199.43	119.56	End Shut-In(1)
80	67.75	119.11	Open To Flow (2)
139	102.82	120.42	Shut-In(2)
199	1176.09	121.27	End Shut-In(2)
205	2055.48	120.28	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
124.00	SOCM 94%m, 4%g, 2%o	0.61
46.00	Mud w /trace of Oil 100%m	0.23

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co., Inc.

Soil #1-17

250 N. Water Suite 300
Wichita, KS 67202

17/10s/34w Thomas KS

Job Ticket: 43781

DST#: 1

ATTN: Tom Funk

Test Start: 2011.08.14 @ 05:43:00

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: 94.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.19 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 8600.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
124.00	SOCM 94%m, 4%g, 2%o	0.610
46.00	Mud w /trace of Oil 100%m	0.226

Total Length: 170.00 ft Total Volume: 0.836 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

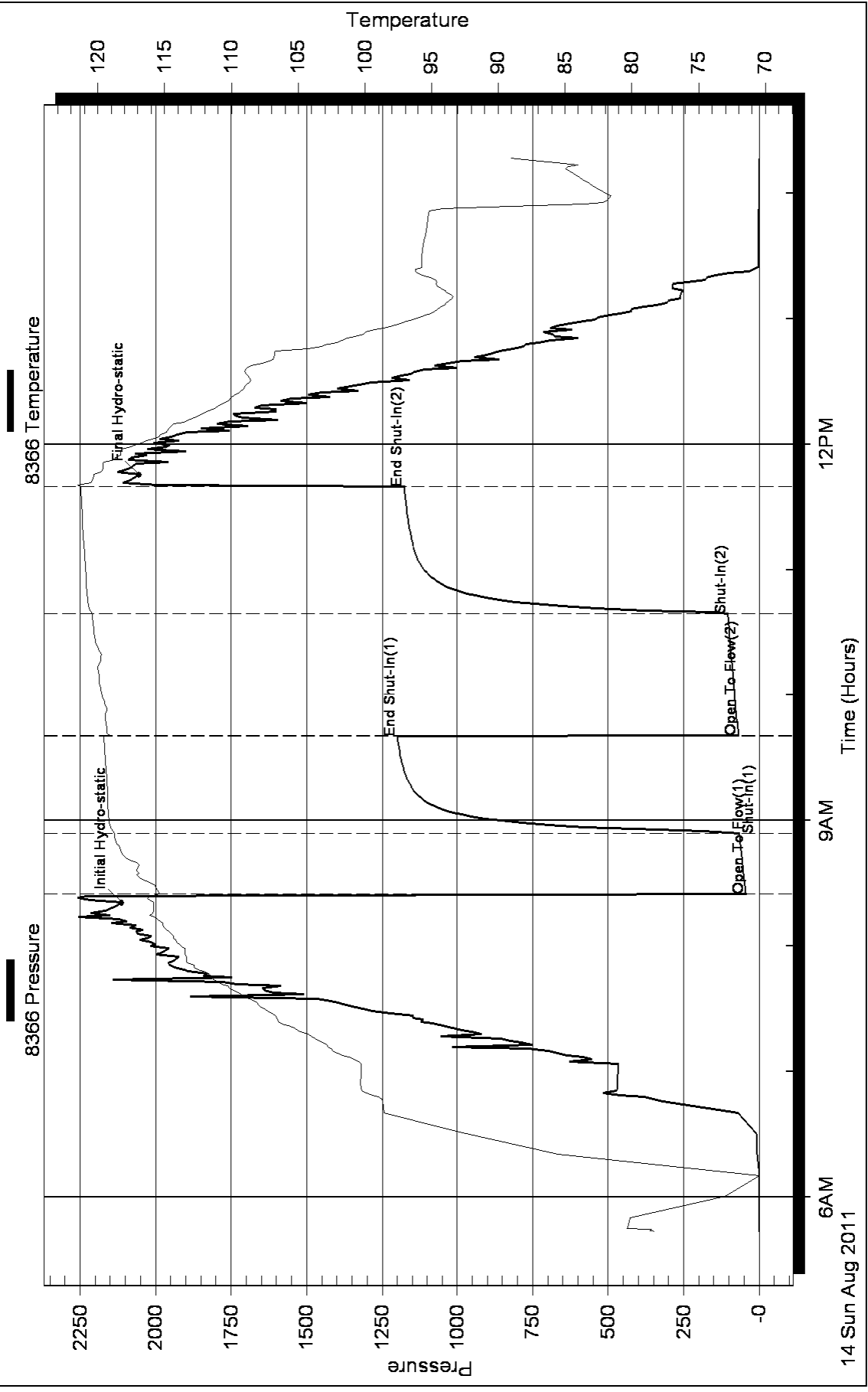
Serial #:

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: Tom Funk

Soil #1-17
17/10s/34w Thomas KS
Job Ticket: 43782 **DST#: 2**
Test Start: 2011.08.14 @ 21:23:00

GENERAL INFORMATION:

Formation: **LKC "K"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 00:06:30
Time Test Ended: 06:29:30
Interval: **4386.00 ft (KB) To 4415.00 ft (KB) (TVD)**
Total Depth: 4415.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Reference Elevations: 3237.00 ft (KB)
3226.00 ft (CF)
KB to GR/CF: 11.00 ft
Test Type: Conventional Bottom Hole
Tester: James Winder
Unit No: 46

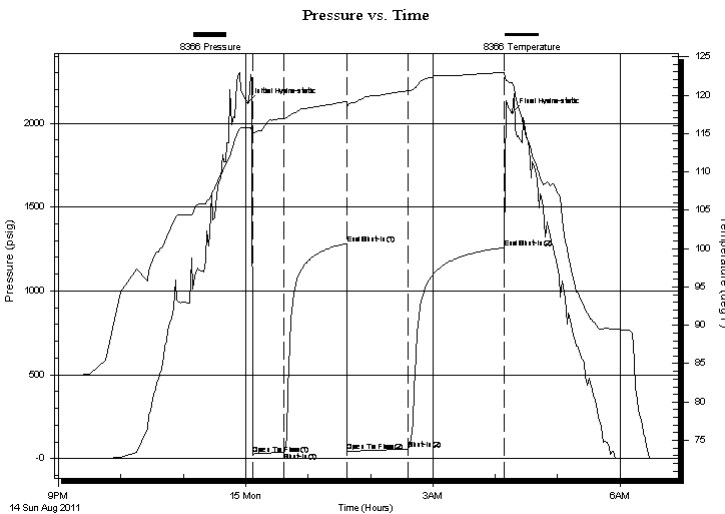
Serial #: 8366

Inside

Press @ Run Depth: 57.23 psig @ 4387.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2011.08.14 End Date: 2011.08.15 Last Calib.: 2011.08.15
Start Time: 21:23:05 End Time: 06:29:30 Time On Btm: 2011.08.15 @ 00:02:00
Time Off Btm: 2011.08.15 @ 04:16:30

TEST COMMENT: 30 - IF: Blow built to just over 1"
60 - IS: No blow back
60 - FF: Blow started at 20 min., built to 3/4"
90 - FS: No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2122.32	115.78	Initial Hydro-static
5	28.02	115.02	Open To Flow (1)
35	39.99	116.91	Shut-In(1)
95	1282.01	119.17	End Shut-In(1)
96	42.79	118.45	Open To Flow (2)
155	57.23	120.58	Shut-In(2)
247	1257.57	122.96	End Shut-In(2)
255	2060.21	121.59	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
62.00	SOCM 87% <i>m</i> , 7% <i>o</i> , 5% <i>g</i>	0.30
15.00	OCM 67% <i>m</i> , 31% <i>o</i> , 2% <i>g</i>	0.07
0.00	Pit Mud = 93% <i>m</i> , 7% <i>o</i>	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.

Soil #1-17

250 N. Water Suite 300
Wichita, KS 67202

17/10s/34w Thomas KS

Job Ticket: 43782

DST#: 2

ATTN: Tom Funk

Test Start: 2011.08.14 @ 21:23:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 80.00 sec/qt
Water Loss: 5.19 in³
Resistivity: ohm.m
Salinity: 8600.00 ppm
Filter Cake: 2.00 inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psig

Oil API: deg API
Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
62.00	SOCM 87% <i>m</i> , 7% <i>o</i> , 5% <i>g</i>	0.305
15.00	OCM 67% <i>m</i> , 31% <i>o</i> , 2% <i>g</i>	0.074
0.00	Pit Mud = 93% <i>m</i> , 7% <i>o</i>	0.000

Total Length: 77.00 ft Total Volume: 0.379 bbl

Num Fluid Samples: 0

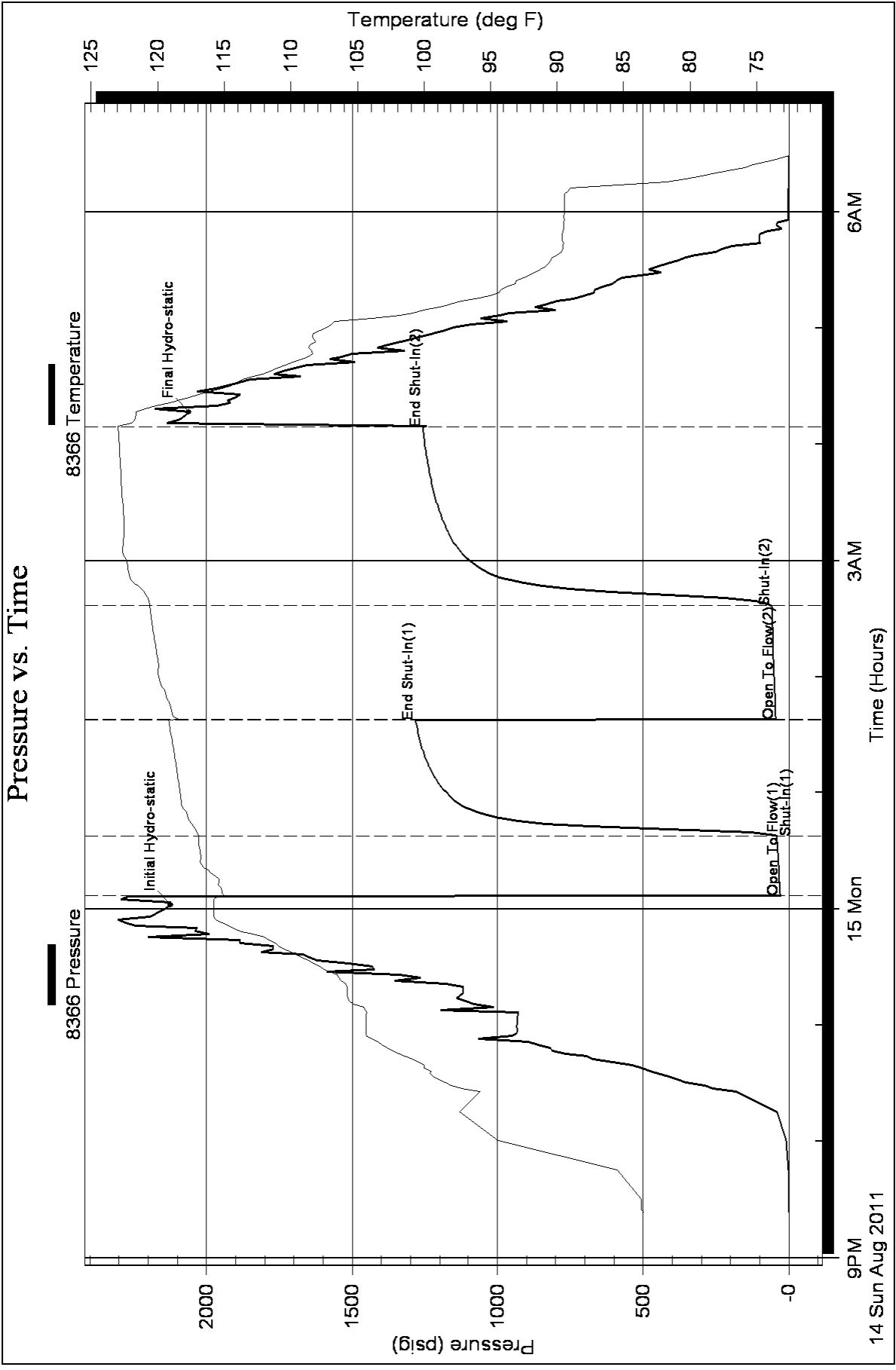
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Murfyn Drilling Co., Inc.
250 N. Water Suite 300
Wichita, KS 67202
ATTN: Tom Funk

Soil #1-17
17/10s/34w Thomas KS
Job Ticket: 43783 **DST#: 3**
Test Start: 2011.08.16 @ 01:52:00

GENERAL INFORMATION:

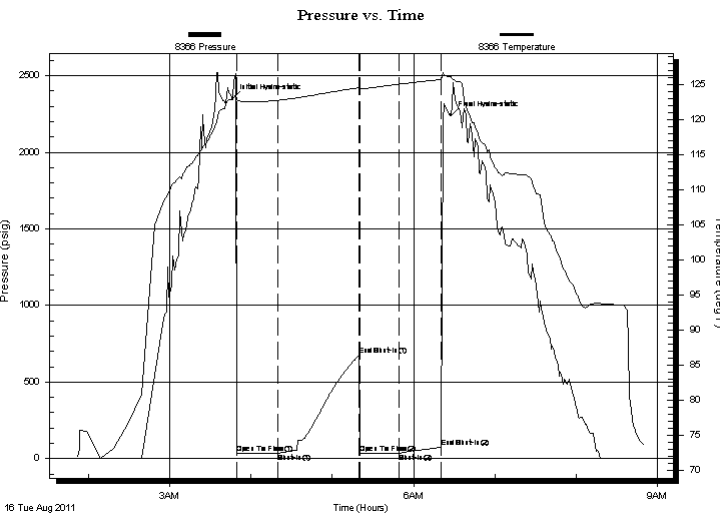
Formation: **Myrick Station**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 03:49:30
Time Test Ended: 08:50:30
Interval: **4605.00 ft (KB) To 4643.00 ft (KB) (TVD)**
Total Depth: 4643.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole
Tester: James Winder
Unit No: 46
Reference Elevations: 3237.00 ft (KB)
3226.00 ft (CF)
KB to GR/CF: 11.00 ft

Serial #: 8366

Inside

Press @RunDepth: 37.89 psig @ 4606.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2011.08.16 End Date: 2011.08.16 Last Calib.: 2011.08.16
Start Time: 01:52:05 End Time: 08:50:29 Time On Btm: 2011.08.16 @ 03:46:30
Time Off Btm: 2011.08.16 @ 06:27:30

TEST COMMENT: 30 - IF: Blow built to 1/4", died back, dead at 27 min.
60 - IS: No blow back
30 - FF: No blow
30 - FS: No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2348.08	122.87	Initial Hydro-static
3	32.39	122.89	Open To Flow (1)
33	35.59	122.76	Shut-In(1)
93	673.25	124.53	End Shut-In(1)
94	36.33	124.35	Open To Flow (2)
123	37.89	125.04	Shut-In(2)
154	76.82	125.72	End Shut-In(2)
161	2240.73	126.14	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
45.00	Mud w /trace of oil 100%m	0.22
0.00	PIT MUD = Mud w /trace of oil	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.

Soil #1-17

250 N. Water Suite 300
Wichita, KS 67202

17/10s/34w Thomas KS

Job Ticket: 43783

DST#: 3

ATTN: Tom Funk

Test Start: 2011.08.16 @ 01:52:00

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: 65.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.60 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 9200.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
45.00	Mud w /trace of oil 100%m	0.221
0.00	PIT MUD = Mud w /trace of oil	0.000

Total Length: 45.00 ft Total Volume: 0.221 bbl

Num Fluid Samples: 0

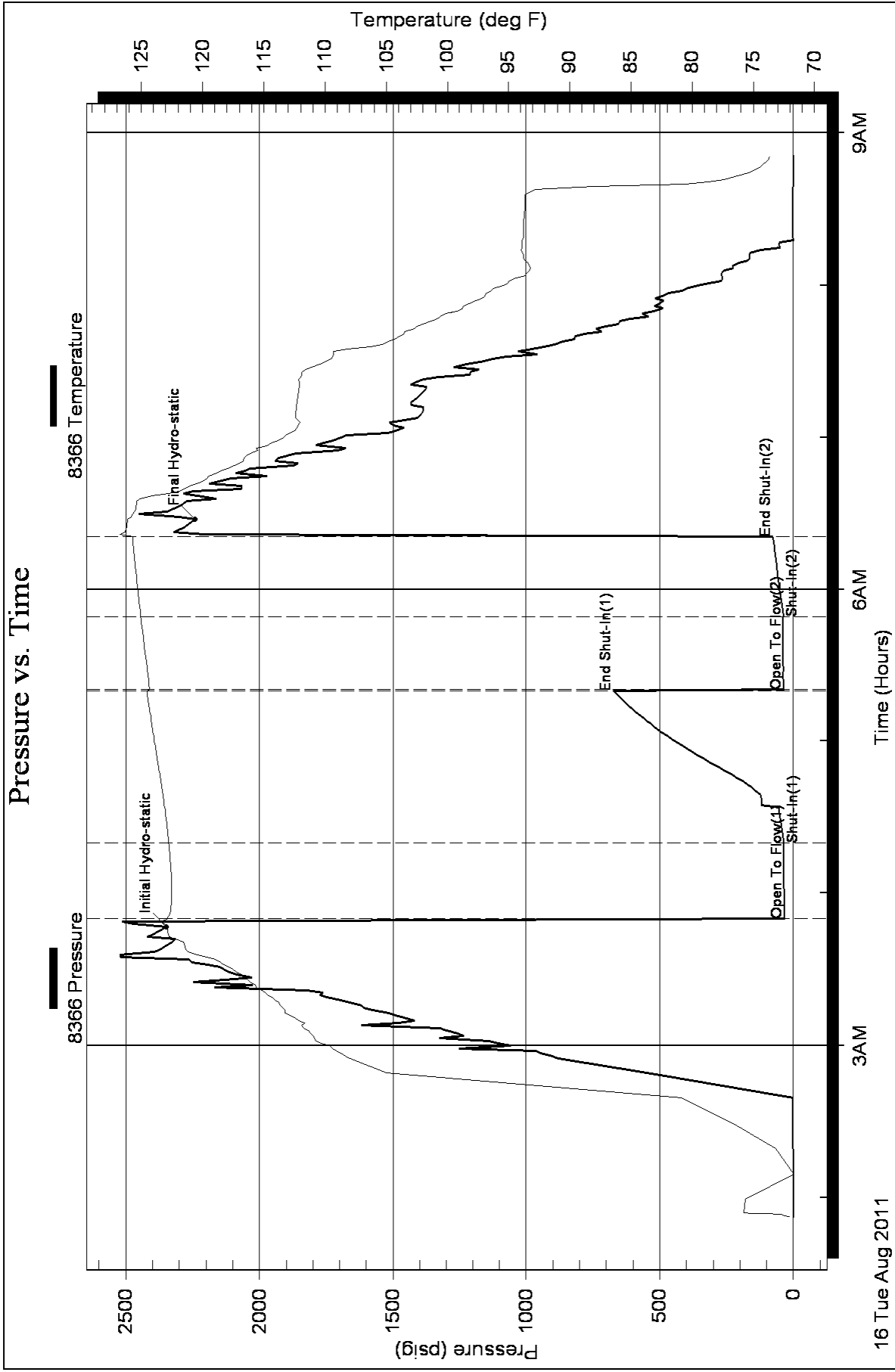
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

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

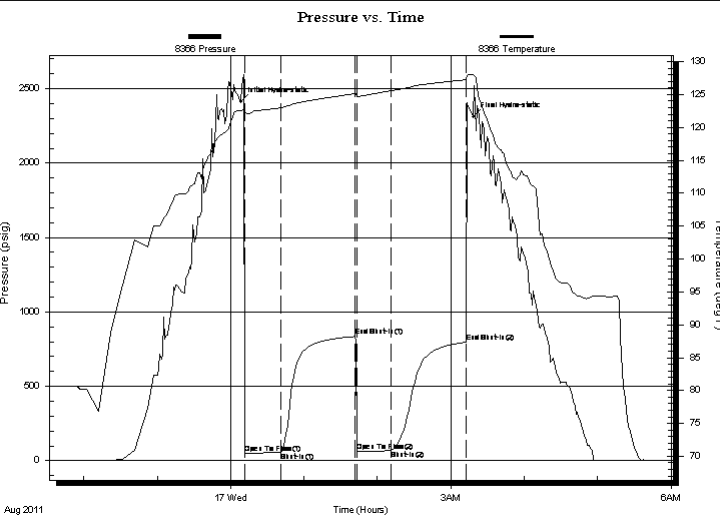
Soil #1-17
17/10s/34w Thomas KS
Job Ticket: 43784 **DST#: 4**
Test Start: 2011.08.16 @ 21:55:00

GENERAL INFORMATION:

Formation: **Johnson**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 00:11:30
Time Test Ended: 05:38:30
Test Type: Conventional Bottom Hole
Tester: James Winder
Unit No: 46
Interval: **4690.00 ft (KB) To 4745.00 ft (KB) (TVD)**
Reference Elevations: 3237.00 ft (KB)
Total Depth: 4745.00 ft (KB) (TVD) 3226.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 11.00 ft

Serial #: 8366 Inside
Press @ Run Depth: 68.06 psig @ 4691.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2011.08.16 End Date: 2011.08.17 Last Calib.: 2011.08.17
Start Time: 21:55:05 End Time: 05:38:29 Time On Btm: 2011.08.17 @ 00:08:30
Time Off Btm: 2011.08.17 @ 03:18:30

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



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2412.05	122.52	Initial Hydro-static
3	47.17	122.02	Open To Flow (1)
33	58.77	123.02	Shut-In(1)
94	834.72	125.14	End Shut-In(1)
95	64.39	124.83	Open To Flow (2)
123	68.06	125.59	Shut-In(2)
184	796.72	127.25	End Shut-In(2)
190	2310.27	128.01	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
62.00	OCM 73% _m , 21% _o , 6% _g	0.30
30.00	GMCO 58% _o , 32% _m , 10% _g	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.

Soil #1-17

250 N. Water Suite 300
Wichita, KS 67202

17/10s/34w Thomas KS

Job Ticket: 43784

DST#: 4

ATTN: Tom Funk

Test Start: 2011.08.16 @ 21:55:00

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: 6.80 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 9700.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
62.00	OCM 73% <i>m</i> , 21% <i>o</i> , 6% <i>g</i>	0.305
30.00	GMCO 58% <i>o</i> , 32% <i>m</i> , 10% <i>g</i>	0.148

Total Length: 92.00 ft Total Volume: 0.453 bbl

Num Fluid Samples: 0

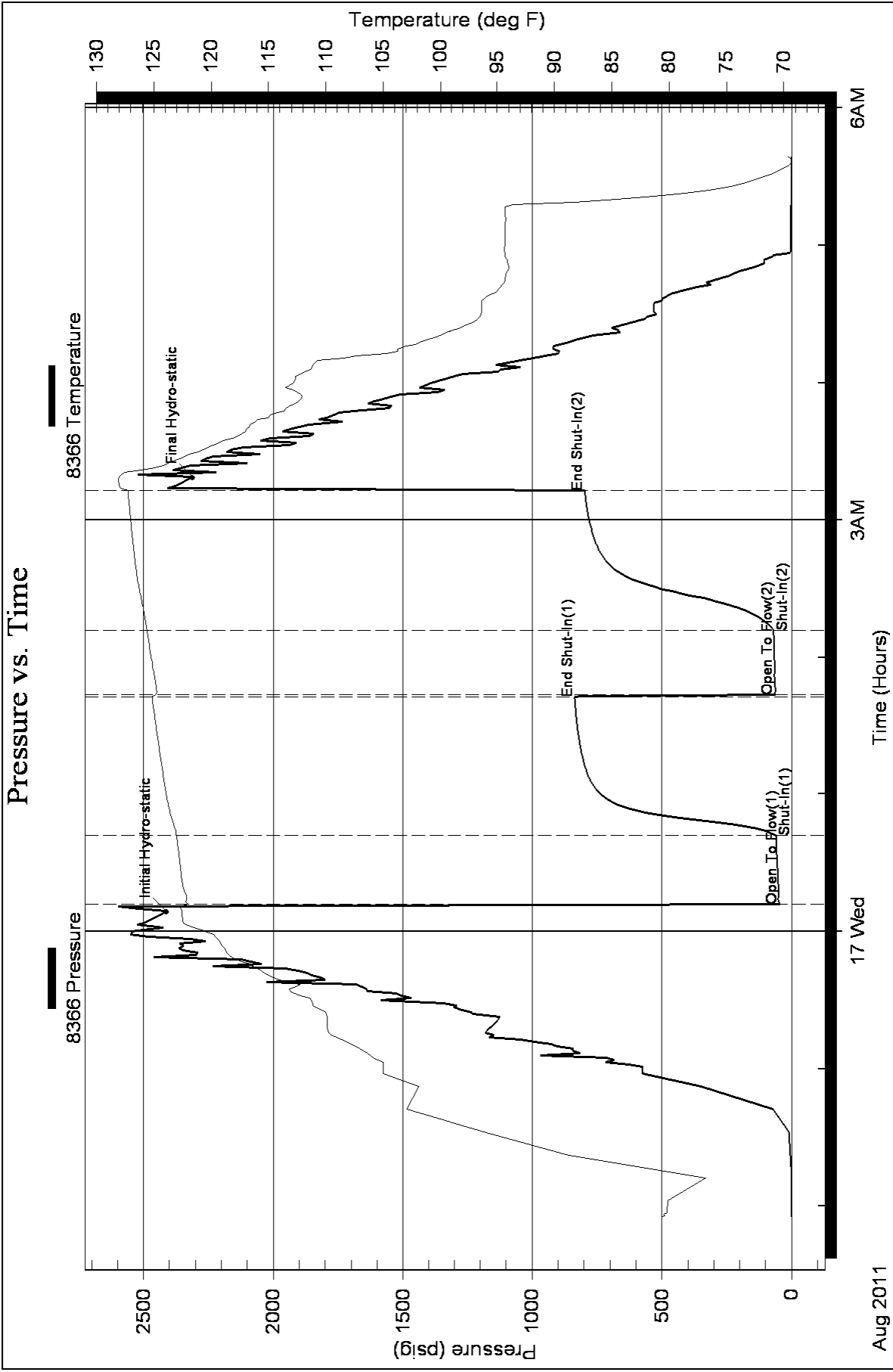
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





PO BOX 31 Russell, KS 67665

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

INVOICE

Invoice Number: 128210
 Invoice Date: Aug 8, 2011
 Page: 1

acct. by

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

PROD COPY
 Federal Tax I.D.#: 20-5975804

Customer ID	Well Name# or Customer P.O.	Payment Terms	
Murfin	Soil #1-17	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-01	Oakley	Aug 8, 2011	9/7/11

Quantity	Item	Description	Unit Price	Amount
195.00	MAT	Class A Common	16.25	3,168.75
7.00	MAT	Chloride	58.20	407.40
202.00	SER	Handling	2.25	454.50
25.00	SER	Mileage	22.22	555.50
1.00	SER	Surface	1,125.00	1,125.00
50.00	SER	Heavy Vehicle Mileage	7.00	350.00
1.00	SER	Manifold Swedge Rental	325.00	325.00
50.00	SER	Light Vehicle Mileage	4.00	200.00
1.00	CEMENTER	LaRene Wentz		
1.00	EQUIP OPER	Darren Racette		
1.00	OPER ASSIST	Ethan Glassman		

Account	Description
<i>ID203</i>	<i>Cement S. (Sg.)</i>
<i>3,7436.0001</i>	<i>6847.21</i>
	<i>(2305.15)</i>
	<i>OK</i>

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

\$ 2305.15

ONLY IF PAID ON OR BEFORE

Sep 2, 2011

Subtotal	6,586.15
Sales Tax	261.06
Total Invoice Amount	6,847.21
Payment/Credit Applied	
TOTAL	6,847.21

(2305.15)

4542.06

ALLIED CEMENTING CO., LLC. 043381

Federal Tax I.D.# 20-5975804

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

SERVICE POINT:
Oakley, KS

DATE <u>8-8-11</u>	SEC. <u>17</u>	TWP. <u>10</u>	RANGE <u>34</u>	CALLED OUT	ON LOCATION <u>7:30pm</u>	JOB START <u>11:00am</u>	JOB FINISH <u>11:30pm</u>
LEASE <u>Soil</u>	WELL # <u>1-17</u>	LOCATION <u>Monument, KS 2W 5th St / 14th Ave</u>			COUNTY	STATE <u>KS</u>	
OLD OR NEW (Circle one) <u>NEW</u>				<u>SW 1/4 N</u>			

CONTRACTOR Murfin #2

TYPE OF JOB surface

HOLE SIZE 12 7/8 T.D. 268'

CASING SIZE 8 7/8 DEPTH 267'

TUBING SIZE _____ DEPTH _____

DRILL PIPE _____ DEPTH _____

TOOL _____ DEPTH _____

PRES. MAX _____ MINIMUM _____

MEAS. LINE _____ SHOE JOINT _____

CEMENT LEFT IN CSG. 15'

PERFS. _____

DISPLACEMENT 16.12 bbl

OWNER same

CEMENT AMOUNT ORDERED 195 sks cement 390 cc

COMMON 195 sks @ 16.25 3168.75

POZMIX @ _____

GEL @ _____

CHLORIDE 7 sks @ 58.20 407.40

ASC @ _____

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

HANDLING 202 sks @ 2.25 454.50

MILEAGE 114 sk/mile 555.50

TOTAL 4586.15

EQUIPMENT

PUMP TRUCK CEMENTER Lakene

431 HELPER Darren

BULK TRUCK DRIVER Ethan

347

BULK TRUCK DRIVER _____

REMARKS:

mix 195 sks down 8 7/8 casing
displace with water

Cement did circulate

Thank you

CHARGE TO: Martin Drilling Co

STREET _____

CITY _____ STATE _____ ZIP _____

SERVICE

DEPTH OF JOB 267'

PUMP TRUCK CHARGE 1125.00

EXTRA FOOTAGE @ _____

MILEAGE 25 x 2 @ 7.00 350.00

MANIFOLD swedge @ 325.00

light vehicle mileage @ 4.00 250.00

TOTAL 2000.00

PLUG & FLOAT EQUIPMENT

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

TOTAL _____

SALES TAX (If Any) _____

TOTAL CHARGES _____

DISCOUNT _____ IF PAID IN 30 DAYS

To Allied Cementing Co., LLC.
You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME Lesar Tinoco

SIGNATURE _____



PO BOX 31 Russell, KS 67665

root
ling

INVOICE

Invoice Number: 128262

Invoice Date: Aug 18, 2011

Page: 1

Voice: (785) 483-3887

Fax: (785) 483-5566

Bill To:

Murfin Drlg. Co., Inc.
250 N. Water
STE #300
Wichita, KS 67202

Federal Tax I.D.#: 20-5975804

Customer ID	Well Name/# or Customer P.O.	Payment Terms	
Murfin	Soil #1-17	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-03	Oakley	Aug 18, 2011	9/17/11

Quantity	Item	Description	Unit Price	Amount
132.00	MAT	Class A Common	16.25	2,145.00
88.00	MAT	Pozmix	8.50	748.00
7.00	MAT	Gel	21.25	148.75
55.00	MAT	Flo Seal	2.70	148.50
229.00	SER	Handling	2.25	515.25
25.00	SER	Mileage 229 sx @.11 per sk per mi	25.19	629.75
1.00	SER	Plug to Abandon	1,250.00	1,250.00
50.00	SER	Pump Truck Mileage	7.00	350.00
1.00	EQP	8.5/8 Dry Hole Plug	92.00	92.00
1.00	CEMENTER	Andrew Forslund		
1.00	OPER ASSIST	Earl Rebarck		

OKAY

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

\$ *8109.53*

ONLY IF PAID ON OR BEFORE

Sep 12, 2011

Subtotal	6,027.25
Sales Tax	439.99
Total Invoice Amount	6,467.24
Payment/Credit Applied	
TOTAL	6,467.24

ALLIED CEMENTING CO., LLC. 043476

Federal Tax I.D.# 20-5975804

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

SERVICE POINT:
Dakley

DATE <u>8-18-11</u>	SEC. <u>17</u>	TWP. <u>10</u>	RANGE <u>34</u>	CALLED OUT	ON LOCATION	JOB START <u>1:30pm</u>	JOB FINISH <u>2:30pm</u>
LEASE <u>SBIL</u>	WELL# <u>1-17</u>	LOCATION <u>monument 2W 5N</u>			COUNTY <u>Thomas</u>	STATE <u>KS</u>	
OLD OR <input checked="" type="radio"/> NEW (Circle one)		SW 1/4N Winto					

CONTRACTOR Murfin 2

TYPE OF JOB PTA

HOLE SIZE 2 7/8 T.D. 4875

CASING SIZE _____ DEPTH _____

TUBING SIZE _____ DEPTH _____

DRILL PIPE 4 1/2 DEPTH 2772

TOOL _____ DEPTH _____

PRES. MAX _____ MINIMUM _____

MEAS. LINE _____ SHOE JOINT _____

CEMENT LEFT IN CSG. _____

PERFS. _____

DISPLACEMENT _____

OWNER same

CEMENT AMOUNT ORDERED 220 sks 6940 49 gal

1/4" flo-seal

COMMON	<u>132 sks</u>	@ <u>16.25</u>	<u>2145.00</u>
POZMIX	<u>88 sks</u>	@ <u>8.50</u>	<u>748.00</u>
GEL	<u>7 sks</u>	@ <u>21.25</u>	<u>148.75</u>
CHLORIDE		@	
ASC		@	
		@	
	<u>Flo-seal 55#</u>	@ <u>2.70</u>	<u>148.50</u>
		@	
		@	
		@	
		@	
		@	
HANDLING	<u>229 sks</u>	@ <u>2.25</u>	<u>515.25</u>
MILEAGE	<u>119 sk/mile</u>		<u>629.25</u>
			TOTAL <u>4335.25</u>

EQUIPMENT

PUMP TRUCK # 423-281 CEMENTER Andrew

HELPER Andrew

BULK TRUCK # 396 DRIVER Earl

BULK TRUCK # _____ DRIVER _____

REMARKS:

25 sks 2772'

100 sks 1232'

40 sks 346'

10 sks 40'

10 sks mouse hole

10 sks Rat hole

Thank you

CHARGE TO: Murfin

STREET _____

CITY _____ STATE _____ ZIP _____

To Allied Cementing Co., LLC.
You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME _____

SIGNATURE [Signature]

SERVICE

DEPTH OF JOB 2772'

PUMP TRUCK CHARGE 1250.00

EXTRA FOOTAGE @ _____

MILEAGE 25 miles @ 7.00 350.00

MANIFOLD @ _____

TOTAL 1600.00

PLUG & FLOAT EQUIPMENT

8 5/8

1 dry hole plug @ 92.00

TOTAL 92.00

SALES TAX (If Any) _____

TOTAL CHARGES _____

DISCOUNT _____ IF PAID IN 30 DAYS