



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: _____



1063483

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

September 16, 2011

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

Re: ACO1
API 15-163-23965-00-00
Hilgers 4-19
NW/4 Sec.19-09S-18W
Rooks 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
 Hilgers #4-19
 800' FNL 1450' FWL
 Sec. 19-T9S-R18W
 2157' KB

Osage Oil & Gas
 Hilgers #1
 4290' FSL 3630' FEL
 Sec. 19-T9S-R18W
 2152' KB

Formation	Sample Top	Datum	Ref	Log tops	Datum	Ref	Log tops	Datum
Anhydrite	1515	+642	+1	1516	+641	Flat	1511	+641
B/Anhydrite	1555	+602	-2	1553	+604	Flat	1548	+604
Topeka	3082	-925	-4	3082	-925	-4	3073	-921
Heebner	3291	-1134	-4	3290	-1133	-3	3282	-1130
Toronto	3310	-1153	-4	3309	-1152	-3	3301	-1149
Lansing	3330	-1173	-4	3329	-1172	-3	3321	-1169
Arbuckle	3592	-1435	-26	3569	-1412	-3	3561	-1409
RTD	3670						3568	
LTD				3670			3568	

Jeff Christian

PETROLEUM GEOLOGIST

Wichita, Kansas

GEOLOGISTS' REPORT

DRILLING TIME AND SAMPLE LOG

OPERATOR MURKIN DRILLING CO., INC.		ELEVATIONS	
LEASE HILBERS # 4-19		BK 2157'	
LOCATION 800' FWL & 1450' FWL		GL 2152'	
SEC. 19 TWP. 9 S RING. 18 W		NEAR/BEHINDS FROM KB.	
COUNTY ROCKS STATE KANSAS		CASINO RECORD	
FIELD MAYHEW		Conductor NONE	
API 15-163-23965		Surface 8.6/66 @ 218'	
CONTRACTOR MURKIN		W/ 1/55 SX	
DRILLING STARTED 7/8/2011 COMPLETED 7/15/2011		Production 1 1/2" @ 3667'	
MUD DISPOSED 2754 MUD TYPE CHEMICAL		ELECTRICAL SUPPLIES	
DRILLING TIME - ENT FROM 3000' TO RTD		LOG TECH. INC.	
SAMPLES SAVED FROM 3000' TO RTD		COL/7ML	
SAMPLES EXAMINED FROM 3000' TO RTD		GEOLOGICAL SUPERVISION FROM 3020' TO RTD	
FORMATION NAME		LOG DATE	SAMPLE
ANHYDRITE	TOP	DATE	TOP
ANHYDRITE	1516'	(+641)	1517'
ANHYDRITE	1552'	(+605)	1555'
TOPEKA	3081'	(-924)	3082'
HEEBNER	3290'	(-1133)	3291'
TORONTO	3309'	(-1152)	3310'
LANSDING	3320'	(-1172)	3330'
STARK	3510'	(-1353)	3511'
BKC	3546'	(-1389)	3546'
ARBuckle	3569'	(-1412)	3569'
RTD	3670'	(-1513)	3670'

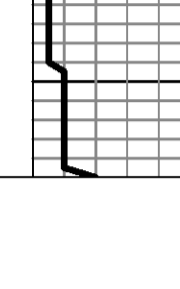
DATE	7:00 AM DEPTH	REMARKS
7/8/11	MIRT	SPUD 3:30 pm
7/9/11	250'	DRLG dev. 1/4 deg. @ 218'
7/10/11	1810'	DRLG
7/11/11	2770'	DRLG
7/12/11	3396'	SHORT TRIP (prior to dst # 1) dev. 2 deg.
7/13/11	3432'	TOH w/ DST # 2
7/14/11	3532'	TIH after DST # 3
7/15/11	3608'	RTD 3670' @ 10:30 am dev. 2 1/4 deg.

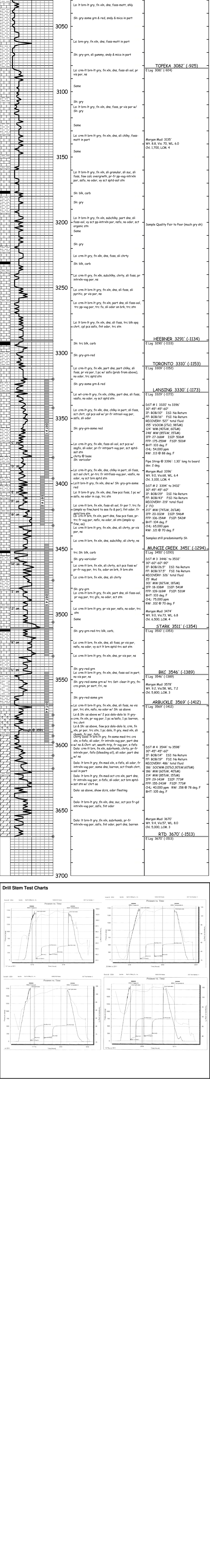
Remarks

5 1/2" production casing set to further test the Arbuckle 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,

 Jeff Christian





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co., Inc.
 250 N. Water Ste. #300
 Wichita, Ks 67202
 ATTN: Jeff Christian

Hilgers #4-19
19/9S/18W-Rooks
 Job Ticket: 45205 **DST#: 1**
 Test Start: 2011.07.12 @ 10:12:00

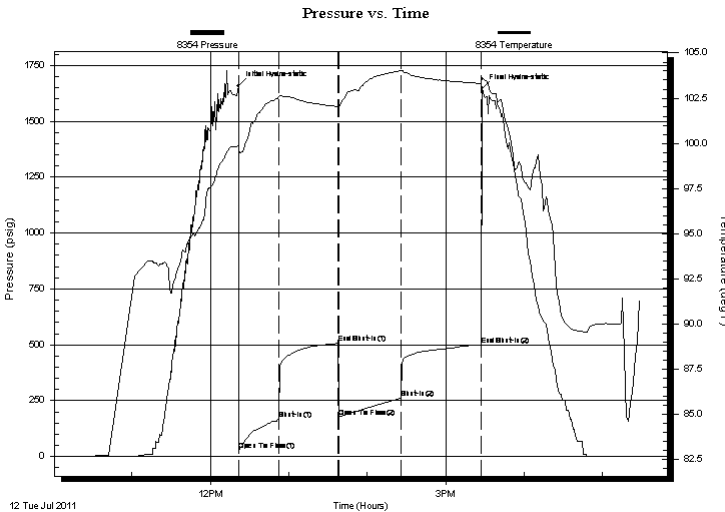
GENERAL INFORMATION:

Formation: **LKC "A-D"**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole
 Time Tool Opened: 12:22:00
 Tester: Dustin Rash
 Time Test Ended: 17:28:30
 Unit No: 38
Interval: 3320.00 ft (KB) To 3396.00 ft (KB) (TVD)
 Reference Elevations: 2157.00 ft (KB)
 Total Depth: 3396.00 ft (KB) (TVD) 2152.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 5.00 ft

Serial #: 8354 Inside
 Press @ Run Depth: 259.42 psig @ 3388.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2011.07.12 End Date: 2011.07.12 Last Calib.: 2011.07.12
 Start Time: 10:22:00 End Time: 17:28:30 Time On Btm: 2011.07.12 @ 12:21:30
 Time Off Btm: 2011.07.12 @ 15:28:00

TEST COMMENT: IF-Fair building blow . BOB in 10 minutes.
 IS-No Return.
 FF-Fair building blow . BOB in 16 minutes.
 FS-No Return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1658.91	99.85	Initial Hydro-static
1	27.19	99.39	Open To Flow (1)
31	168.13	102.58	Shut-In(1)
76	505.84	102.04	End Shut-In(1)
77	174.55	101.93	Open To Flow (2)
124	259.42	104.01	Shut-In(2)
186	500.74	103.32	End Shut-In(2)
187	1647.76	103.56	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
248.00	85%Water/15%Mud	1.87
124.00	60%Mud/40%Water	1.74
155.00	98%Mud/2%Oil	2.17

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co., Inc.

Hilgers #4-19

250 N. Water Ste. #300
Wichita, Ks 67202

19/9S/18W-Rooks

Job Ticket: 45205

DST#: 1

ATTN: Jeff Christian

Test Start: 2011.07.12 @ 10:12:00

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:

54000 ppm

Viscosity: 70.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.00 in³

Gas Cushion Type:

Resistivity: 0.11 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1700.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
248.00	85%Water/15%Mud	1.866
124.00	60%Mud/40%Water	1.739
155.00	98%Mud/2%Oil	2.174

Total Length: 527.00 ft

Total Volume: 5.779 bbl

Num Fluid Samples: 0

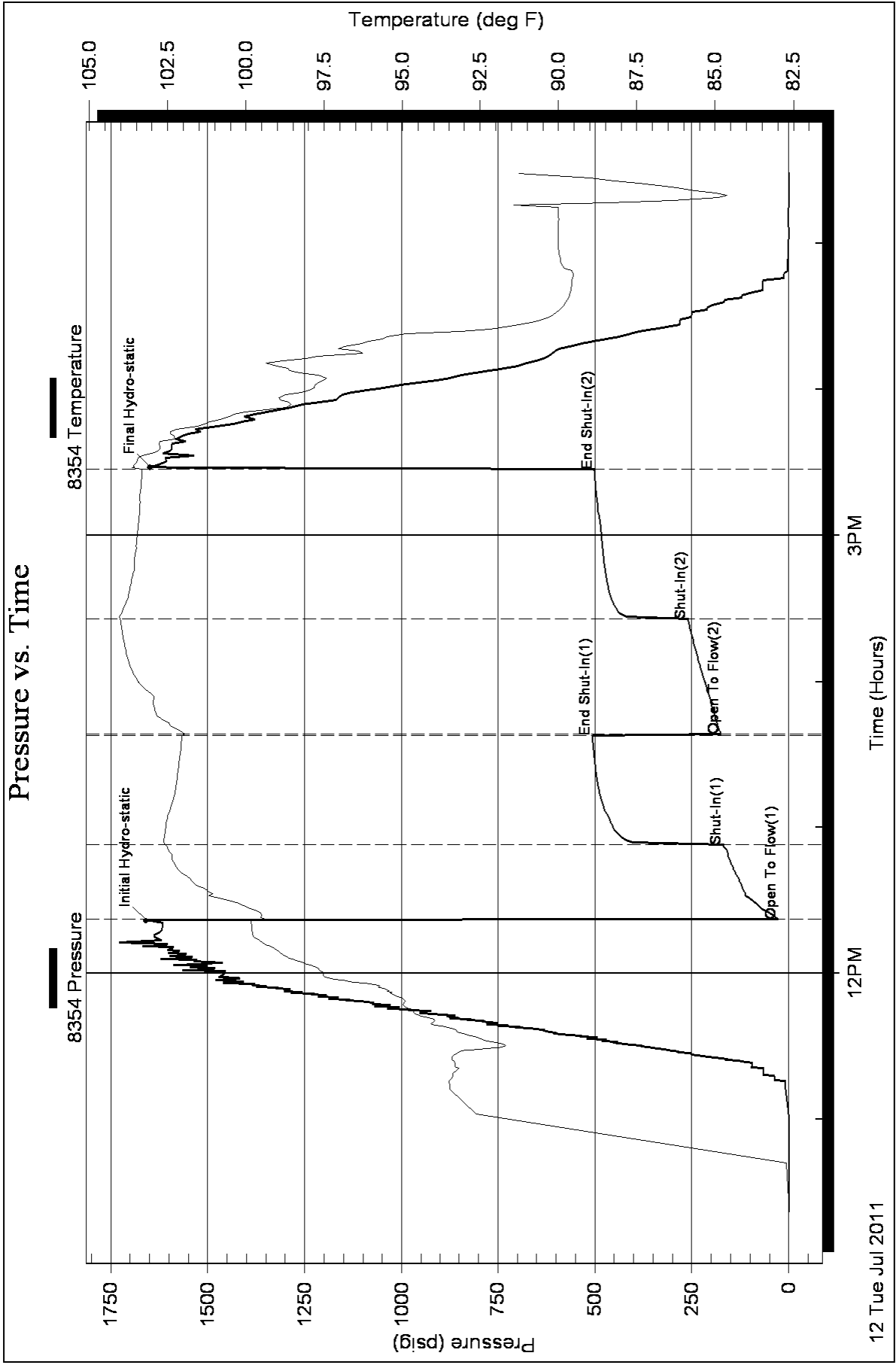
Num Gas Bombs: 0

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: Jeff Christian

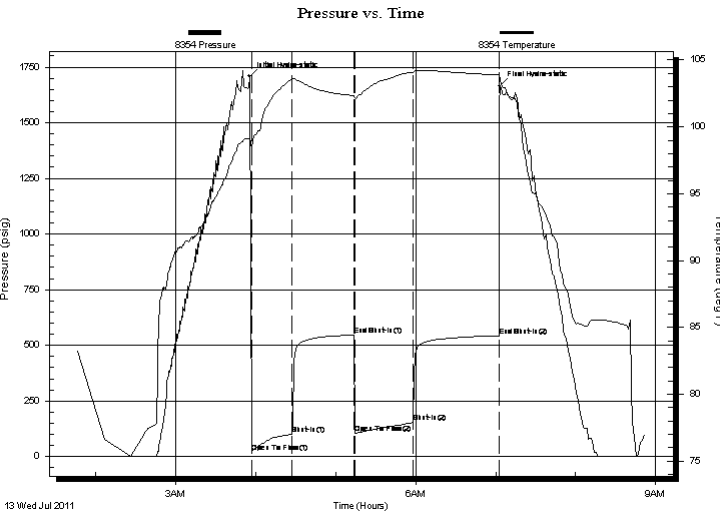
Hilgers #4-19
19/9S/18W-Rooks
 Job Ticket: 45206 **DST#: 2**
 Test Start: 2011.07.13 @ 01:36:15

GENERAL INFORMATION:

Formation: **LKC "E-F"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 03:56:45
 Time Test Ended: 08:52:15
 Interval: **3394.00 ft (KB) To 3432.00 ft (KB) (TVD)**
 Total Depth: 3432.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole
 Tester: Dustin Rash
 Unit No: 38
 Reference Elevations: 2157.00 ft (KB)
 2152.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 8354 Inside
 Press @ Run Depth: 153.71 psig @ 3396.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2011.07.13 End Date: 2011.07.13 Last Calib.: 2011.07.13
 Start Time: 01:46:15 End Time: 08:52:15 Time On Btm: 2011.07.13 @ 03:55:15
 Time Off Btm: 2011.07.13 @ 07:03:15

TEST COMMENT: IF-Weak building blow . BOB in 29 minutes.
 FSI-No Return.
 FF-Weak building blow . BOB in 43 minutes 30 seconds.
 FSI-No Return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1708.63	99.15	Initial Hydro-static
2	19.91	98.36	Open To Flow (1)
32	102.04	103.57	Shut-In(1)
79	546.09	102.35	End Shut-In(1)
79	105.67	102.18	Open To Flow (2)
123	153.71	104.10	Shut-In(2)
187	542.45	103.87	End Shut-In(2)
188	1665.33	103.44	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
155.00	80%Water/20%Mud	0.76
62.00	60%Water/40%Mud	0.67
2.00	100%Oil	0.03

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co., Inc.

Hilgers #4-19

250 N. Water Ste. #300
Wichita, Ks 67202

19/9S/18W-Rooks

Job Ticket: 45206

DST#: 2

ATTN: Jeff Christian

Test Start: 2011.07.13 @ 01:36:15

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:	65000 ppm
Viscosity: 68.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.40 in ³	Gas Cushion Type:		
Resistivity: 0.12 ohm.m	Gas Cushion Pressure: psig		
Salinity: 3100.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
155.00	80%Water/20%Mud	0.762
62.00	60%Water/40%Mud	0.669
2.00	100%Oil	0.028

Total Length: 219.00 ft Total Volume: 1.459 bbl

Num Fluid Samples: 0

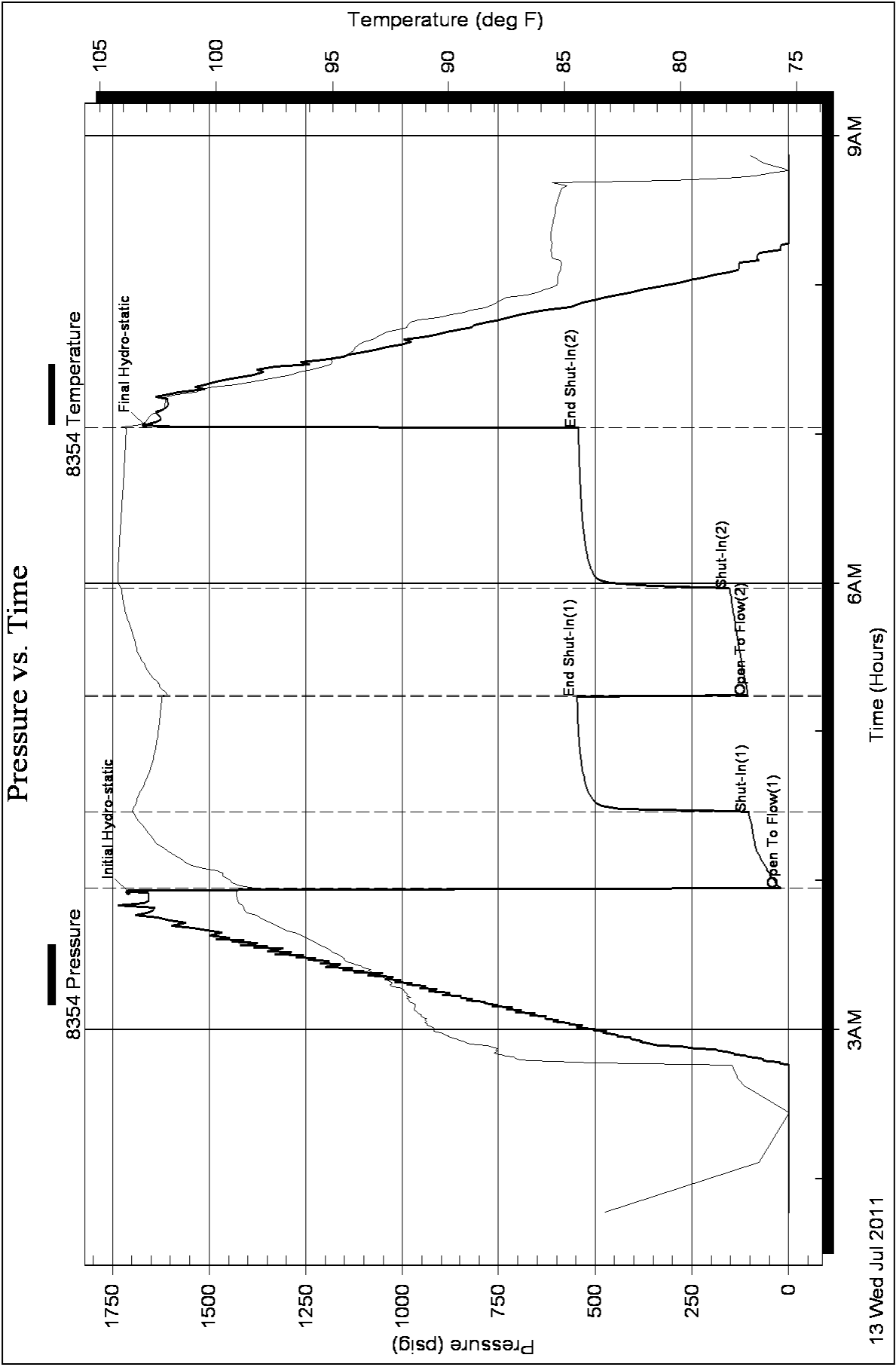
Num Gas Bombs: 0

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: Jeff Christian

Hilgers #4-19
19/9S/18W-Rooks
Job Ticket: 45207 **DST#: 3**
Test Start: 2011.07.13 @ 21:34:20

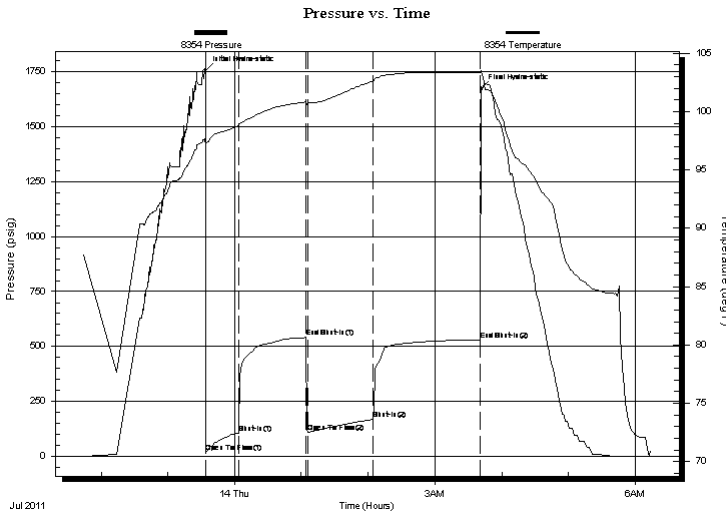
GENERAL INFORMATION:

Formation: **LKC "H-K"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 23:33:50
Time Test Ended: 06:14:50
Interval: **3446.00 ft (KB) To 3532.00 ft (KB) (TVD)**
Total Depth: 3532.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Reference Elevations: 2157.00 ft (KB)
2152.00 ft (CF)
KB to GR/CF: 5.00 ft
Test Type: Conventional Bottom Hole
Tester: Dustin Rash
Unit No: 38

Serial #: 8354 Inside
Press @ Run Depth: 168.55 psig @ 3516.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2011.07.13 End Date: 2011.07.14 Last Calib.: 2011.07.14
Start Time: 21:44:20 End Time: 06:14:50 Time On Btm: 2011.07.13 @ 23:33:40
Time Off Btm: 2011.07.14 @ 03:41:50

TEST COMMENT: IF-Weak building blow . BOB in 26 minutes 30 seconds.
ISI-No Return.
FF-Weak building blow . BOB in 37 minutes 30 seconds.
FSI-No Return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1755.36	97.66	Initial Hydro-static
1	17.90	97.08	Open To Flow (1)
31	107.58	98.83	Shut-In(1)
91	541.11	100.85	End Shut-In(1)
92	109.36	100.76	Open To Flow (2)
151	168.55	102.63	Shut-In(2)
248	531.41	103.32	End Shut-In(2)
249	1673.23	103.54	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
177.00	90%Water/10%Mud	0.87
124.00	70%Water/30%Mud	1.74
25.00	100%Mud	0.35

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co., Inc.

Hilgers #4-19

250 N. Water Ste. #300
Wichita, Ks 67202

19/9S/18W-Rooks

ATTN: Jeff Christian

Job Ticket: 45207

DST#: 3

Test Start: 2011.07.13 @ 21:34:20

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:	75000 ppm
Viscosity: 73.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.80 in ³	Gas Cushion Type:		
Resistivity: 0.10 ohm.m	Gas Cushion Pressure: psig		
Salinity: 6500.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
177.00	90%Water/10%Mud	0.870
124.00	70%Water/30%Mud	1.739
25.00	100%Mud	0.351

Total Length: 326.00 ft Total Volume: 2.960 bbl

Num Fluid Samples: 0

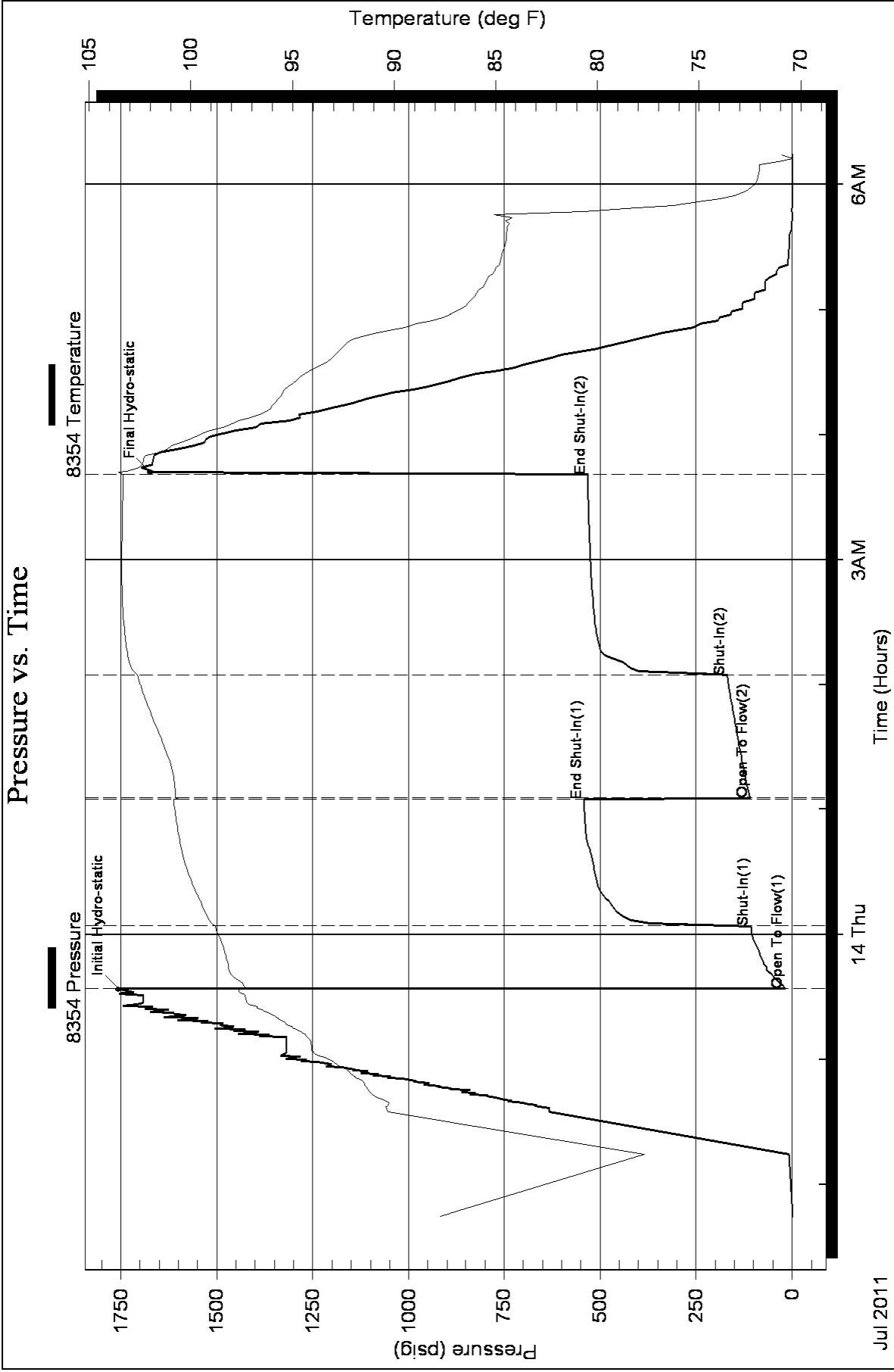
Num Gas Bombs: 0

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: Jeff Christian

Hilgers #4-19
19/9S/18W-Rooks
Job Ticket: 45208 **DST#: 4**
Test Start: 2011.07.14 @ 18:20:10

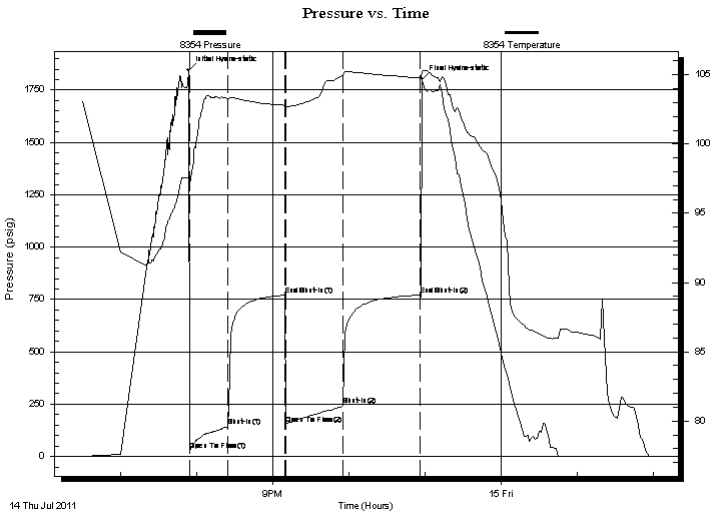
GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 19:54:30
Time Test Ended: 01:56:40
Interval: **3544.00 ft (KB) To 3598.00 ft (KB) (TVD)**
Total Depth: 3598.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole
Tester: Dustin Rash
Unit No: 38
Reference Elevations: 2157.00 ft (KB)
2152.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8354 Inside
Press @ Run Depth: 243.23 psig @ 3583.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2011.07.14 End Date: 2011.07.15 Last Calib.: 2011.07.15
Start Time: 18:30:10 End Time: 01:56:40 Time On Btm: 2011.07.14 @ 19:53:20
Time Off Btm: 2011.07.14 @ 22:57:40

TEST COMMENT: IF-Fair building blow . BOB in 14 minutes.
ISI-No Return.
FF-Fair building blow . BOB in 19 minutes.
FSI-No Return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1844.02	97.60	Initial Hydro-static
2	28.94	97.16	Open To Flow (1)
32	142.92	103.28	Shut-In(1)
76	770.62	102.81	End Shut-In(1)
77	154.71	102.69	Open To Flow (2)
122	243.23	104.98	Shut-In(2)
183	771.04	104.80	End Shut-In(2)
185	1801.02	105.21	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
114.00	85%Water/15%Mud	0.56
186.00	60%Water/40%Mud	2.04
186.00	60%Mud/30%Water/10%Oil	2.61

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co., Inc.

Hilgers #4-19

250 N. Water Ste. #300
Wichita, Ks 67202

19/9S/18W-Rooks

Job Ticket: 45208

DST#: 4

ATTN: Jeff Christian

Test Start: 2011.07.14 @ 18:20:10

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:

40000 ppm

Viscosity: 58.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.20 in³

Gas Cushion Type:

Resistivity: 0.16 ohm.m

Gas Cushion Pressure:

psig

Salinity: 5800.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
114.00	85%Water/15%Mud	0.561
186.00	60%Water/40%Mud	2.035
186.00	60%Mud/30%Water/10%Oil	2.609

Total Length: 486.00 ft

Total Volume: 5.205 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

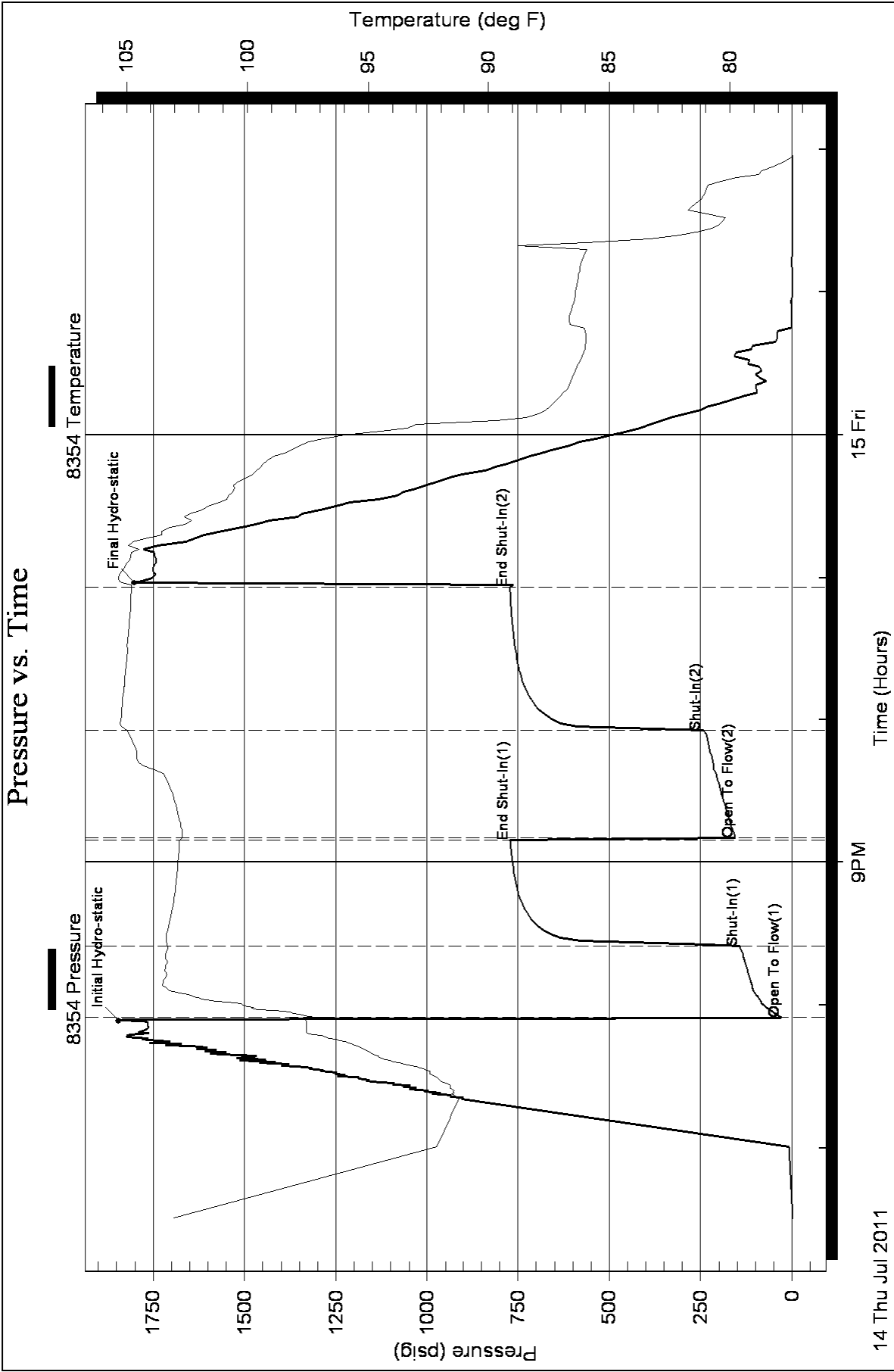
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





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

Date: 7/12/2011
 Invoice # 4870

acct. Log

P.O.#:
 Due Date: 8/11/2011
 Division: *Russell*

Invoice

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

USED FOR _____

APPROVED _____

Reference:
 HILGERS 4-19 ✓

Description of Work:
 SURFACE JOB

Services / Items Included:	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 991.39	No				
Common-Class A	165	\$ 2,185.54	Yes				
Bulk Truck Matl-Material Service Charge	173	\$ 375.66	No				
Pump Truck Mileage-Job to Nearest Camp	32	\$ 346.73	No				
Calcium Chloride	5	\$ 204.44	Yes				
Bulk Truck Mileage-Job to Nearest Bulk Plant	32	\$ 202.90	No				
Premium Gel (Bentonite)	3	\$ 53.03	Yes				

Invoice Terms:
 Net 30 ✓

SubTotal: \$ 4,359.69
 Discount Available ONLY if Invoice is Paid & Received within listed terms of invoice: \$ (653.95) ✓

SubTotal for Taxable Items: \$ 2,076.56
 SubTotal for Non-Taxable Items: \$ 1,629.18
 Total: \$ 3,705.73
 Tax: \$ 130.82

6.30% Rooks County Sales Tax

Thank You For Your Business!

Amount Due: \$ 3,836.56
Applied Payments:
Balance Due: \$ 3,836.56

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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CRS

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. 4870

Date	7-8-11	Sec.	19	Twp.	9	Range	18	County	Reichs	State	KS	On Location		Finish	8:15 p.m.	
Lease	Hilgers	Well No.	4-19	Location Plainville W Rd 13 13/4 N Einto												
Contractor	Murkin #8	Owner										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.				
Type Job	Surface															
Hole Size	12 1/4	T.D.	217													
Csg.	8 5/8	Depth	217	Charge To Murkin Drilling												
Tbg. Size		Depth		Street												
Tool		Depth		City												State
Cement Left in Csg.	15'	Shoe Joint		The above was done to satisfaction and supervision of owner agent or contractor.												
Meas Line		Displace	13BL	Cement Amount Ordered 165 com 3/6 c.c. 20/10/1												

EQUIPMENT

Pumptrk	No.	Cementer	Co's	Common	165
		Helper			
Bulktrk	3	Driver	Brandon	Poz. Mix	
		Driver			
Bulktrk	14	Driver	Drews	Gel.	3
		Driver			

JOB SERVICES & REMARKS

Remarks:	Hulls
Rat Hole	Salt
Mouse Hole	Flowseal
Centralizers	Kol-Seal
Baskets	Mud CLR 48
D/V or Port Collar	CFL-117 or CD110 CAF 38
8 5/8 on bottom Est. Circulation.	Sand
Mix 165 gal & Displace.	Handling 173
Cement Circulated!	Mileage

FLOAT EQUIPMENT

Guide Shoe	
Centralizer	
Baskets	
AFU Inserts	8 5/8 5 wags
Float Shoe	
Latch Down	
Pumptrk Charge	Surface
Mileage	32

Frank's

X
Signature

Tax
Discount
Total Charge

Liz



P. O. Box 466
Ness City, KS 67560
Off: 785-798-2300



Invoice

DATE	INVOICE #
8/15/2011	20253

BILL TO
Murfin Drilling Co Inc P. O. Box 130 Hill City, KS 67642-0130

- Acidizing
- Cement
- Tool Rental

IC 103
J. J.

TERMS	Well No.	Lease	County	Contractor	Well Type	Well Category	Job Purpose	Operator
Net 30	#4-19	Hilgers	Rooks	Murfin Drilling	Oil	Development	Cement Port Collar	Dave
PRICE REF.	DESCRIPTION				QTY	UM	UNIT PRICE	AMOUNT
575D	Mileage - 1 Way				40	Miles	6.00	240.00
578D-D	Pump Charge - Port Collar				1	Job	1,500.00	1,500.00
288	Sand (20/40 Brady)				1	Sack(s)	22.00	22.00T
279	Bentonite Gel				5	Sack(s)	25.00	125.00T
290	D-Air				2	Gallon(s)	35.00	70.00T
330	Swift Multi-Density Standard (MIDCON II)				200	Sacks	16.50	3,300.00T
276	Flocele				50	Lb(s)	2.00	100.00T
581D	Service Charge Cement				200	Sacks	2.00	400.00
583D	Drayage				399.4	Ton Miles	1.00	399.40
	Subtotal							6,156.40
	Sales Tax Rooks County						6.30%	227.87

Thank You For Your Business!	Total	\$6,384.27
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CHARGE TO: Martinez
 ADDRESS
 CITY, STATE, ZIP CODE

TICKET
 20253

PAGE 1 OF 1

SERVICE LOCATIONS	WELL/PROJECT NO.	LEASE	COUNTY/PARISH	STATE	CITY	DATE	OWNER
1. <u>HWS</u>	<u>4-F</u>	<u>Higgins</u>	<u>Levee</u>	<u>MS</u>		<u>08-15-11</u>	
2. <u>NESS</u>	TICKET TYPE <input checked="" type="checkbox"/> SERVICE <input type="checkbox"/> SALES	CONTRACTOR	RIG NAME/NO.	SHIPPED VIA <u>ET</u>	DELIVERED TO <u>MS ZUBICH</u>	ORDER NO.	
3.	WELL TYPE	WELL CATEGORY	JOB PURPOSE		WELL PERMIT NO.	WELL LOCATION	
4.		<u>DLK</u>	<u>Develop</u>				
INVOICE INSTRUCTIONS							

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.	UM	QTY.	UM	UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
575					MILEAGE #112	40	m			6.00	240.00
578					Lang Service	1	EA			1500.00	1500.00
388					20-105420	1	SR			22.00	22.00
<u>299</u>					Beverly Ziegler	5	SR			25.00	125.00
<u>290</u>					D-416	2	CH			35.00	70.00
<u>330</u>					Sand Cont	200	SR			16.50	3300.00
<u>276</u>					FIDELS	50	LB			2.00	100.00
<u>581</u>					SEWER/CHEM CONT	200	SR			2.00	400.00
<u>523</u>					DRYING	399	Tm			1.00	399.00

LEGAL TERMS: Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, **PAYMENT, RELEASE, INDEMNITY**, and **LIMITED WARRANTY** provisions.
 MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS
 DATE SIGNED 08-15-11 TIME SIGNED 0745 A.M. P.M.
 X [Signature]

REMIT PAYMENT TO:
 SWIFT SERVICES, INC.
 P.O. BOX 466
 NESS CITY, KS 67560
 785-798-2300

SURVEY	AGREE	UN-DECIDED	DIS-AGREE	PAGE TOTAL
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?				656
WE UNDERSTOOD AND MET YOUR NEEDS?				
OUR SERVICE WAS PERFORMED WITHOUT DELAY?				
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?				
ARE YOU SATISFIED WITH OUR SERVICE?	<input type="checkbox"/> YES	<input type="checkbox"/> NO		
<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND				
TOTAL				6384.27

SWIFT OPERATOR: Dave Asst APPROVAL: _____
 CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES The customer hereby acknowledges receipt of the materials and services listed on this ticket.
 Thank You!

JOB LOG

SWIFT Services, Inc.

DATE 08-15-11 PAGE NO. 1

CUSTOMER MURKIN OIL WELL NO. 4 LEASE HILGERS JOB TYPE CMT: PORT COLUMBIA TICKET NO. 20253

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	0800							ON LOCATION CMT: 200 SWS SAND 4" PROCELE 10 SWS GEL ON SIDE, 2 SWS SAND 2 7/8 X 5/8 RBP 3469 P.C. @ 1537
	0900		64.0	✓				TBL @ 1861, LOAD HOLE
	0915			✓		1000	1000	PSI TEST
	0945		10.0	✓				SPOT 1st SAND Pull up to P.C., P.C. @ 1537
	1015							open
		25	2.0	✓		300		TRNG. RATE
	1020		0	✓		500		START GEL
			140	✓				CIRC MUD
			15.0	✓				END GEL 5 SWS
		50	10	✓				START H2O SPACE
			0	✓				START CMT @ 11.2" / SR
			95	✓				CIRC CMT
			103	✓				END CMT MIXED 200 SWS
			0	✓				START DISP 20 SWS TO PIT!
	1050		8	✓				END CLOSE PC
	1055			✓	-	1100	1100	PSI TEST RUN 5 JOINTS
	1100		0	✓			200	REBOOT CMT
			8	✓				1st FMS
			12	✓				2nd FMS
	1110		25	✓				ALL CLEAN RUN TBL DOWN TO RBP
	1205		0	✓			300	WASH OFF SAND RBP
			21	✓				SAND
			23	✓				CLEAN
			33	✓				END
	1245							THANK YOU! DAVE, JESSE, LANE



PO BOX 31 Russell, KS 67665

Voice: (785) 483-3887

Fax: (785) 483-5566

Acct# —

cc: w1
cc: Law-2
Scan his

USED FOR IC 103

APPROVED JL.

INVOICE

Invoice Number: 127939

Invoice Date: Jul 17, 2011

Page: 1

Bill To:

Murfin Drilling Co.
P.O. Box 288
Russell, KS 64665

Federal Tax I.D.#: 20-5975804

Customer ID	Well Name/# or Customer P.O.	Payment Terms	
Murfin	Hilgers #4-19	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS2-02	Russell	Jul 16, 2011	8/16/11

Quantity	Item	Description	Unit Price	Amount
195.00	MAT	ASC Class A	19.00	3,705.00
3.00	MAT	KCL	31.25	93.75
500.00	MAT	WFR-2	1.27	635.00
195.00	SER	Hasndling	2.25	438.75
30.00	SER	Mileage 195 sx @.11 per sk per mi	21.45	643.50
1.00	SER	Production String	2,225.00	2,225.00
60.00	SER	Pump truck Mileage	7.00	420.00
60.00	SER	Light Vehicle Mileage	4.00	240.00
1.00	EQP	5.5 Float Shoe	381.00	381.00
1.00	EQP	5.5 Latch Down Pug Assy	194.00	194.00
1.00	EQP	5.5 Basket	236.00	236.00
10.00	EQP	5.5 Centralizer	34.00	340.00
10.00	EQP	5.5 Reciprocating Scratchers	93.00	930.00
1.00	EQP	5.5 Port Collar	1,820.00	1,820.00
1.00	CEMENTER	Glenn Ginther		
1.00	OPER ASSIST	Woody O'Neil		
1.00	OPER ASSIST	Mark Radke		

Subtotal	12,302.00
Sales Tax	525.09
Total Invoice Amount	12,827.09
Payment/Credit Applied	
TOTAL	12,827.09

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

\$ 405.70

ONLY IF PAID ON OR BEFORE

Aug 11, 2011

ALLIED CEMENTING CO., LLC. 039663

Federal Tax I.D.# 20-5975804

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

SERVICE POINT:

Russell, Kas.

DATE <u>7-16-2011</u>	SEC. <u>19</u>	TWP. <u>9 S</u>	RANGE <u>18 W</u>	CALLED OUT	ON LOCATION	JOB START <u>6:30 AM</u>	JOB FINISH <u>7:00 AM</u>
LEASE <u>HILGERS</u>	WELL # <u>4-19</u>	LOCATION <u>Plainville 4 W 1 3/4 N 1/4 E 300</u>				COUNTY <u>ROCK</u>	STATE <u>KANSAS</u>
OLD OR NEW (Circle one)							

CONTRACTOR MURFIN DRILLING, Rig # 8 OWNER _____

TYPE OF JOB PRODUCTION STAIR CEMENT _____

HOLE SIZE 7 7/8 T.D. 3670' AMOUNT ORDERED 19.5 SX ASC. 10% SALT

CASING SIZE 5 1/2 New DEPTH 3667 2 1/2 GEL * (23 BBL KCL TOTAL) *

~~PIPE~~ PORT COLLAR DEPTH 1539 (\$1) 500 GAL WFR-2 MOD FLUSH

TOOL LATCH DOWN PLUG ASSY DEPTH 3640

PRES. MAX _____ MINIMUM _____

MEAS. LINE _____ SHOE JOINT 21.33

CEMENT LEFT IN CSG. 21.33

PERFS. _____

DISPLACEMENT 87/BBL

EQUIPMENT _____

PUMP TRUCK CEMENTER COLEMAN

417 HELPER WOODY

BULK TRUCK _____

378 DRIVER MARK

BULK TRUCK _____

_____ DRIVER _____

REMARKS:

Ran 88 JOINTS OF NEW 15.5" 50# NY SACSG.
Set @ 3667' Received CIRCULATION, and
Recip. Pipe for 1 HR. ON BOTTOM. Pumped
5 BBL KCL, 500 GAL MOD FLUSH, 5 BBL WATER,
Cement w/ 150 SX ASC. Check Line. Release
plug, disp fast 18 BBL w/ KCL. 87 BBL TOTAL DISPL.
LAND LATCH DN. PLUG @ 2 PORT RELEASED + (Held)
30 SX Rathole. HAWK'S
15 SX mousehole

COMMON	19.5 SX	@	
POZ MIX		@	
GEL		@	
CHLORIDE		@	
ASC	19.5 SX	@	19.00 370.50
KCL	23 BBL (300L)	@	31.25 93.75
WFR-2 MOD FLUSH	500 GAL	@	1.27 635.00
HANDLING	19.5 SX	@	2.25 438.75
MILEAGE	30 TH MILE	@	11.4 643.50
	5516.00		
	1000.00		
	4412.80		

DEPTH OF JOB		
PUMP TRUCK CHARGE		2225.00
EXTRA FOOTAGE	@	
MILEAGE 30 MI HVK	@	7.00 420.00
MANIFOLD	@	
30 MFLYR	@	4.00 240.00

CHARGE TO: MURFIN DRILLING Co. INC.
STREET _____
CITY _____ STATE _____ ZIP _____

2225.00
660.00 - 445.00
330.00
333.00
1780.00 TOTAL

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

PLUG & FLOAT EQUIPMENT		381.00
RA 1-Float Skoe		
RA 1-LATCH DOWN PLUG ASSY	@	194.00
RA 1-BASKET	@	236.00
RA 10-CENTRALIZERS	@	34.00 340.00
RA 10-RECIP. SCRATCHERS	@	93.00 930.00
B 1-PORT COLLAR	@	1820.00
		3901.00
		390.10 less 10% DISCOUNT
		3510.90

PRINTED NAME _____

SIGNATURE Wade Kinney

SALES TAX (If Any)	
TOTAL CHARGES	
DISCOUNT	
4412.80	
1780.00	
330.00	
3510.90	
<u>\$ 10,033.70</u>	