



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1116765
OIL & GAS CONSERVATION DIVISION

Form ACO-1

August 2013

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
- Plug Back Conv. to GSW Conv. to Producer
- Commingled Permit #: _____
- Dual Completion Permit #: _____
- SWD Permit #: _____
- ENHR Permit #: _____
- GSW Permit #: _____

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

GPS Location: Lat: _____, Long: _____
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical 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

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



1116765

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

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

INSTRUCTIONS: Show important tops 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.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <i>(Attach Additional Sheets)</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input type="checkbox"/> No			
Electric Log Run	<input type="checkbox"/> Yes <input type="checkbox"/> No			
List All E. Logs Run:				

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				

Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*

Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

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> _____	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
Thomas E. Wright, Commissioner
Shari Feist Albrecht, Commissioner

Sam Brownback, Governor

February 18, 2013

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

Re: ACO1
API 15-051-26414-00-00
Keller-Aust 1-28
NW/4 Sec.28-11S-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 Keller-Aust #1-28 430' FNL 880' FWL Sec. 28-T11S-R20W 2212' KB	Imperial American Diane #21-1 1240' FSL 900' FWL Sec. 21-T11S-R20W 2144' KB
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Formation	Sample top	Datum	Ref	Log tops	Datum	Ref	Log tops	Datum
Anhydrite	1644	+568	-4	1644	+568	-4	1572	+572
B/Anhydrite	1687	+525	-5	1682	+530	Flat	1614	+530
Topeka	3272	-1060	-13	3273	-1061	-14	3191	-1047
Heebner	3494	-1282	-17	3495	-1283	-18	3409	-1265
Toronto	3516	-1304	-17	3516	-1304	-17	3431	-1287
Lansing	3530	-1318	-14	3535	-1323	-19	3448	-1304
Stark	3725	-1484	-16	3724	-1512	-12	3639	-1500
BKC	3757	-1545	-17	3758	-1546	-18	3672	-1528
Arbuckle	3848	-1636	-22	3848	-1636	-22	3758	-1614
RTD	3950						3893	
LTD				3952			3892	



GEOLOGIST'S REPORT

OPERATOR **MURFIN DRILLING COMPANY, INC.**
LEASE **KELLER-AUST # 1-28**

ELEVATIONS
KB **2212 Ft.**
CL **2207 Ft.**

LOCATION **430 FNL & 880 FWL**

SEC. **28** TWPSP **11S** RGE **20W**

COUNTY **ELLIS** STATE **KANSAS**

FIELD **CROMB SOUTH**

CONTRACTOR **Murfin Drilling Company** RIG NO. **16**

COMMENCED **24 October 2012** MUD TYPE **Chemical**

MUD DISPLACED **2829** MUD TYPE **Chemical**

DRILLING TIME KEPT FROM **3180** TO **3950**

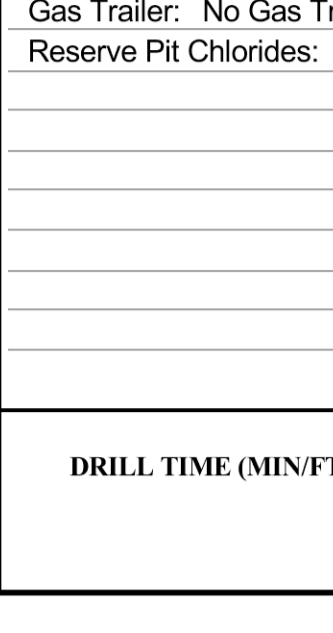
SAMPLES SAVED FROM **3180** TO **3950**

SAMPLES EXAMINED FROM **3180** TO **3950**

GEOLOGICAL SUPERVISION FROM **3175** TO **3950**

GEOLOGIST ON WELL **Paul Gunzelman**

FORMATION NAME	TOP DATUM	LOG	SAMPLE DATUM	DEPTH
Stone Corral	1643	+569	1644	+568
Base/Anhydrite	1683	+529	1687	+525
Topoka	3273	-1061	3272	-1060
Heebner Shale	3495	-1283	3494	-1282
Toronto	3516	-1304	3516	-1304
Lansing	3536	-1324	3536	-1324
Base/Kansas City	3724	-1483	3725	-1484
Arbuckle	3848	-1636	3848	-1636
Total Depth	3952	-1740	3950	-1738



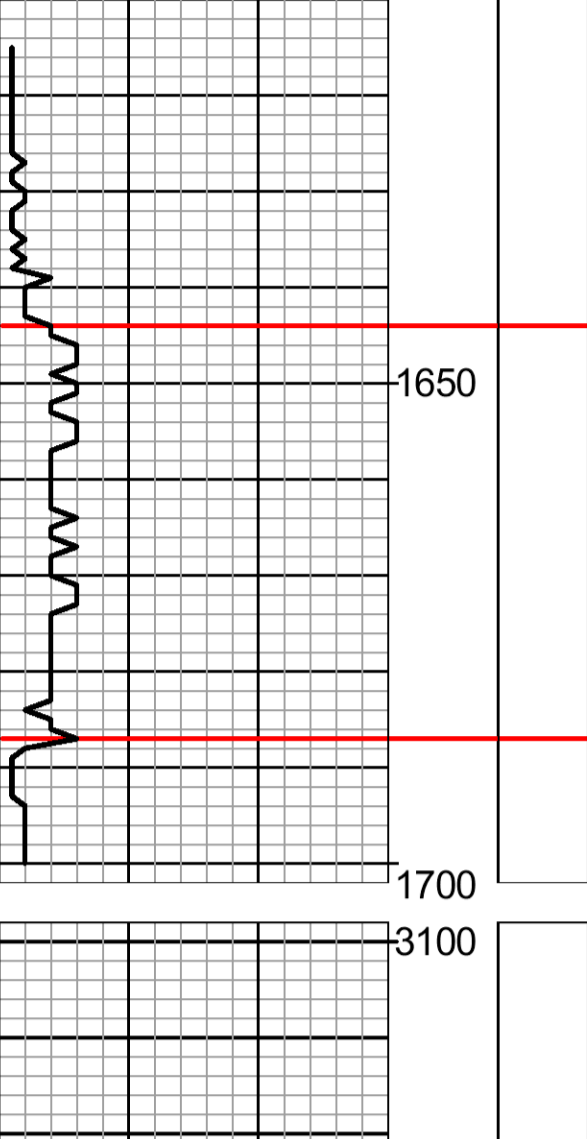
ELECTRICAL SURVES:
Pioneer Energy Services
 Comp. Neutron Density
 Dual Induction
 Micro-resistivity
 Comp. Sonic

CASING RECORD
 Conductor Name
 Surface **8 5/8" @ 217**
 Production **5 1/2" @ 3948'**

ALL MEASUREMENTS FROM K/B

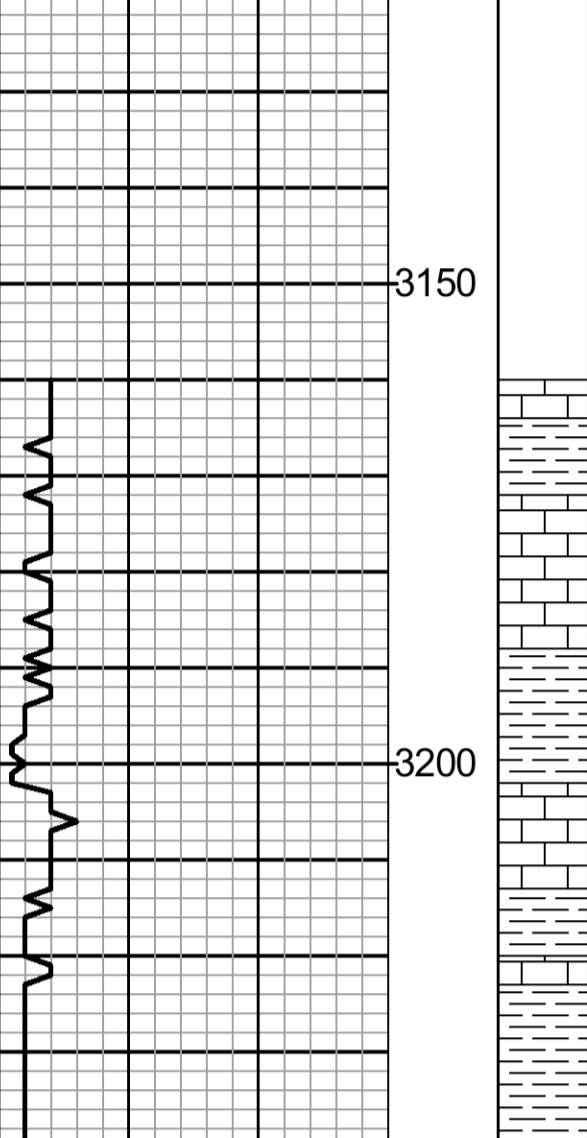
REMARKS
 API 15-051-26414-00-00
 Drilling Fluids: Morgan Mud, Inc. (David Lines, engineer)
 Drill Stem Testing: Trilobite Testing, Inc. (Cody Bloedorn, tester)
 Gas Trailer: No Gas Trailer
 Reserve Pit Chlorides: 62,000 ppm.

DRILL TIME (MIN/FT)	DEPTH	LITHOLOGY	REMARKS
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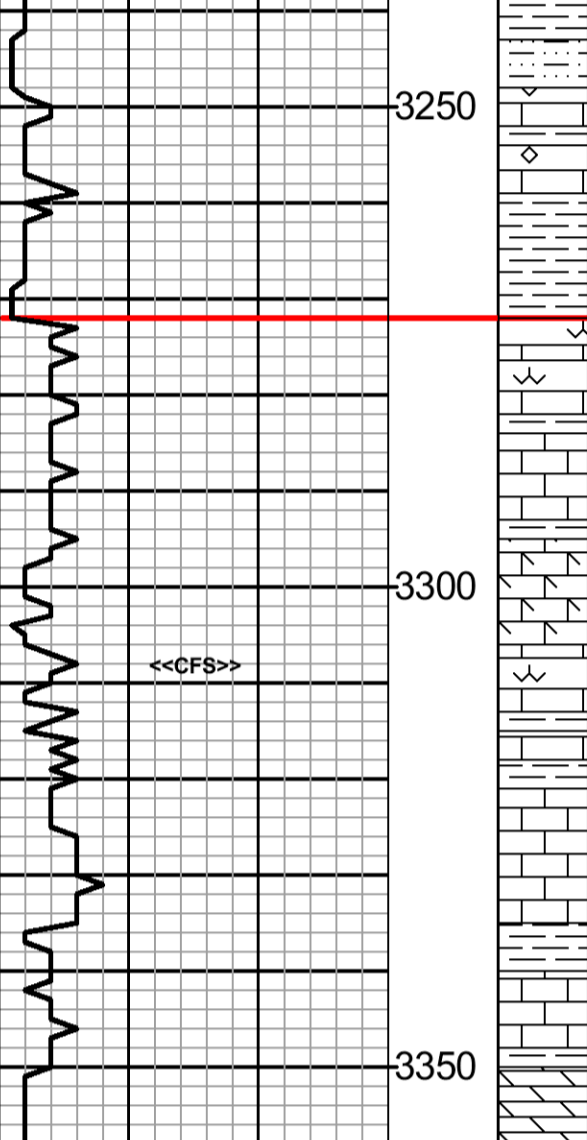
STONE CORRAL
1644 (+568)
 BASE/ANHYDRITE
1687 (+525)

8:36 AM, 27 October 2012
 Morgan Mud check @ 3179'
 Vis: 52, Wt: 8.8, WL: 6.8
 Chlor: 3,500 ppm, LCM: 0#



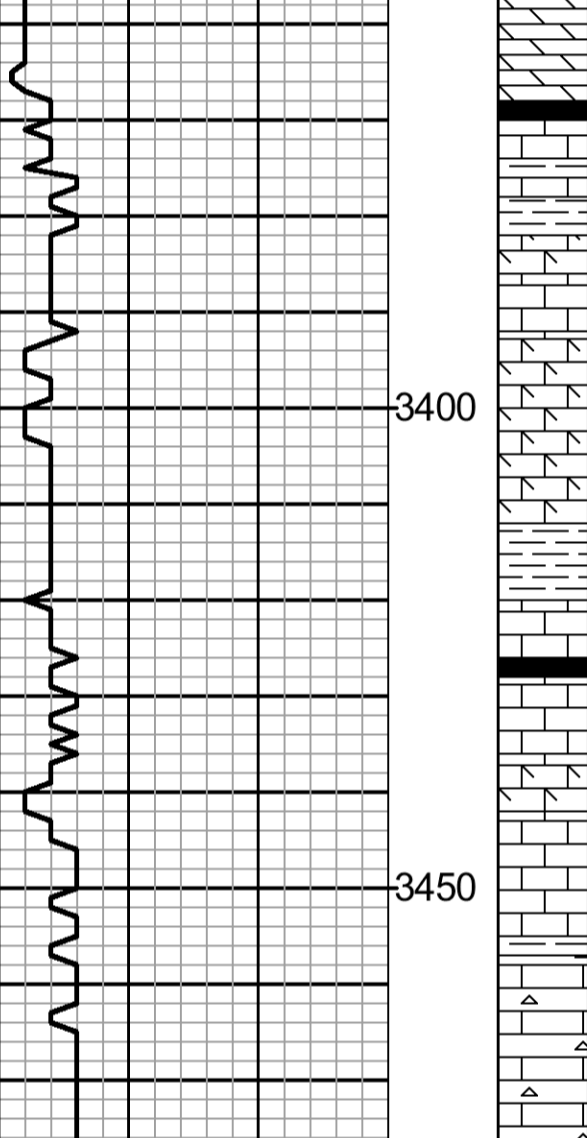
8:36 AM, 27 October 2012
 Morgan Mud check @ 3179'
 Vis: 52, Wt: 8.8, WL: 6.8
 Chlor: 3,500 ppm, LCM: 0#

TOPEKA
3272 (-1060)



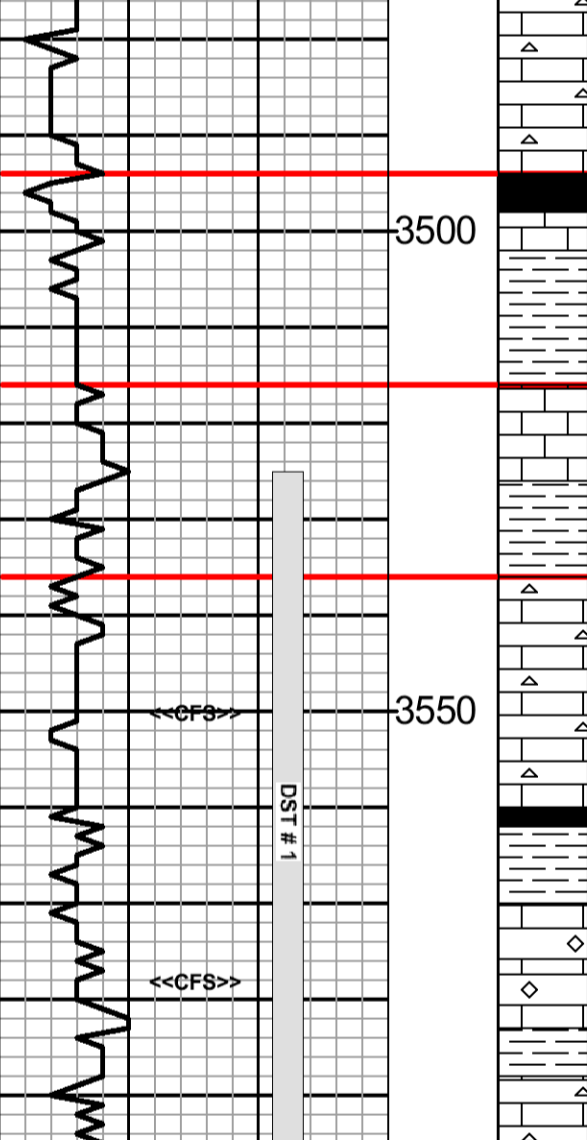
Morgan Mud check @ 3598'
 Vis: 59, Wt: 9.2, WL: 6.8
 Chlor: 4,600 ppm, LCM: 0#

HEEBNER SHALE
3494 (-1282)



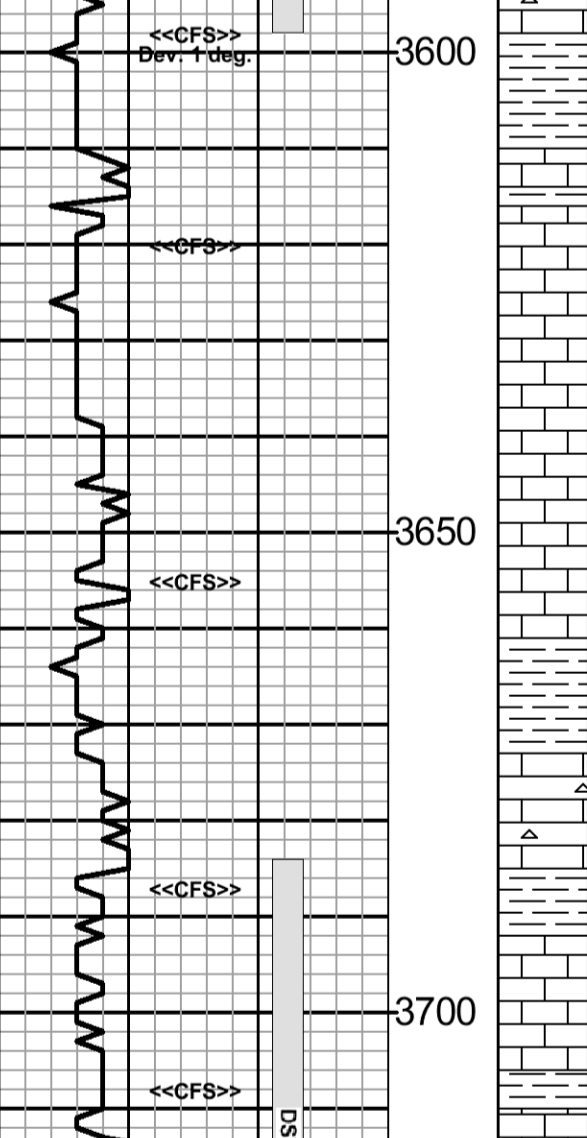
Morgan Mud check @ 3744'
 Vis: 57, Wt: 9.3, WL: 6.4
 Chlor: 4,600 ppm, LCM: 0#

BASE/KANSAS CITY
3757 (-1545)



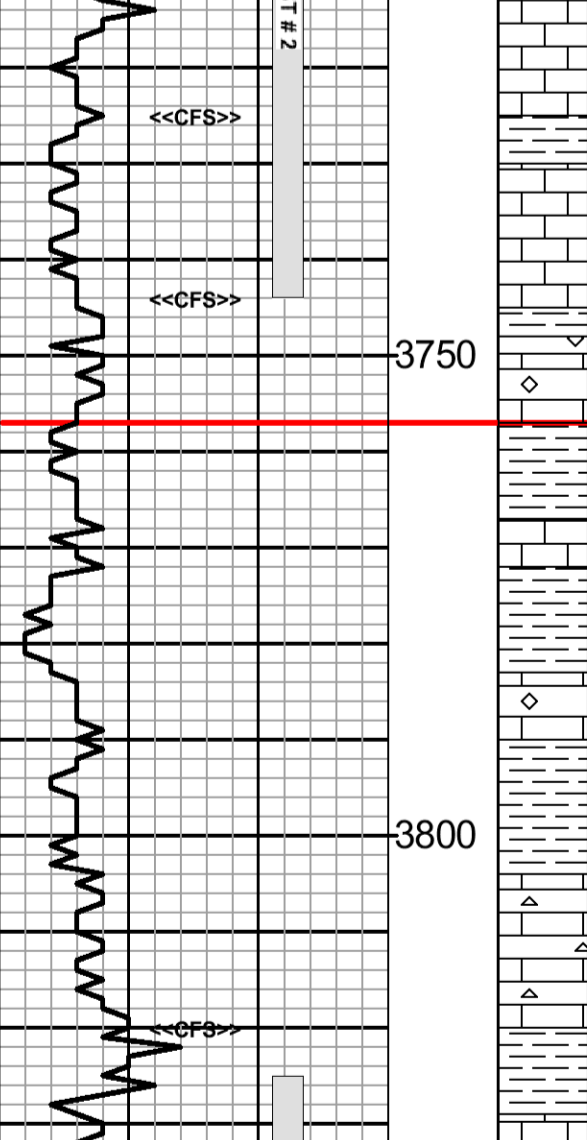
Morgan Mud check @ 3858'
 Vis: 56, Wt: 9.3, WL: 6.0
 Chlor: 5,200 ppm, LCM: 3#

ARBUCKLE
3848 (-1636)



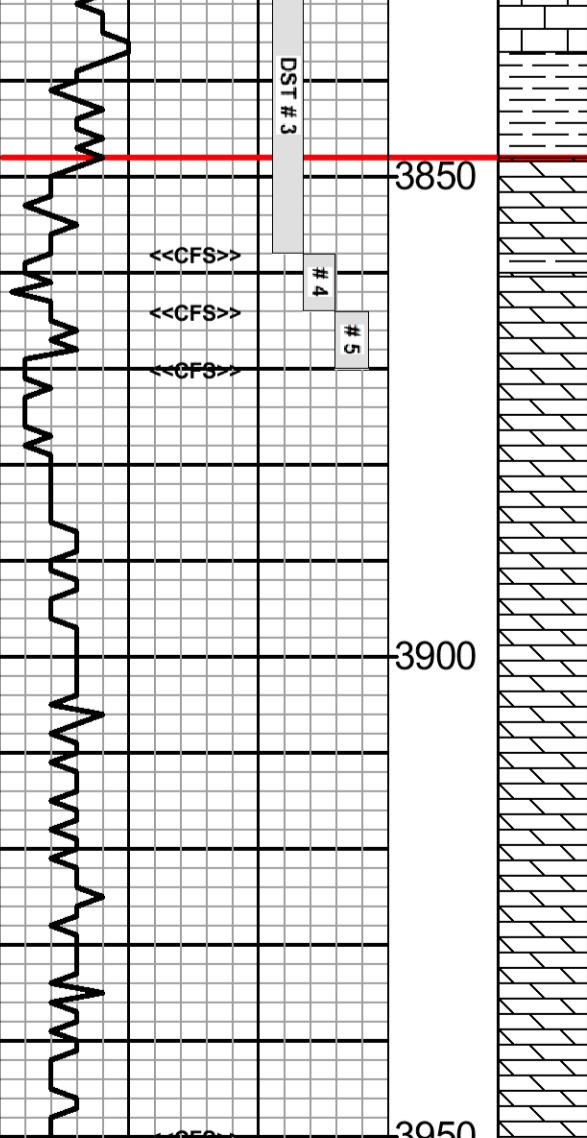
Morgan Mud check @ 3858'
 Vis: 56, Wt: 9.3, WL: 6.0
 Chlor: 5,200 ppm, LCM: 3#

TOTAL DEPTH
3950 (-1738)



Morgan Mud check @ 3858'
 Vis: 56, Wt: 9.3, WL: 6.0
 Chlor: 5,200 ppm, LCM: 3#

RECOVERY:
 20 Ft. Muddy Water (Chlor: 20,000 ppm)
 IHP: 1946 psi. FHP: 1899 psi.
 IFP: 17-25 psi. ISIP: 1127 psi.
 FFP: 29-32 psi. FSIP: 1043 psi.
 BHT: 116 deg. F.



Morgan Mud check @ 3858'
 Vis: 56, Wt: 9.3, WL: 6.0
 Chlor: 5,200 ppm, LCM: 3#

RECOVERY:
 275 Ft. Muddy Water (Chlor: 16,000 ppm)
 IHP: 1947 psi. FHP: 1881 psi.
 IFP: 17-65 psi. ISIP: 1181 psi.
 FFP: 66-145 psi. FSIP: 1187 psi.
 BHT: 120 deg. F.

Operator:	MURFIN DRILLING COMPANY, INC.
Lease:	KELLER-AUST # 1-28
Location:	430 FNL & 880 FWL SEC. 28 TWPSP 11S RGE 20W
County:	ELLIS State: KANSAS



DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company Inc.**

250 N. Water STE 300
Wichita KS 67202

ATTN: Paul Gunzelman

Keller Aust #1-28

28-11s-20w Ellis,KS

Start Date: 2012.10.28 @ 09:37:00

End Date: 2012.10.28 @ 16:25:39

Job Ticket #: 51021 DST #: 1

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2012.11.05 @ 13:28:32



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Company Inc.

28-11s-20w Ellis, KS

250 N. Water STE 300
Wichita KS 67202

Keller Aust #1-28

Job Ticket: 51021

DST#: 1

ATTN: Paul Gunzelman

Test Start: 2012.10.28 @ 09:37:00

GENERAL INFORMATION:

Formation: **LKC "A-D"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 12:03:00
 Time Test Ended: 16:25:39
 Interval: **3525.00 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 (Initial)
 Tester: Cody Bloedorn
 Unit No: 39
 Reference Elevations: 2212.00 ft (KB)
 2207.00 ft (CF)
 KB to GR/CF: 5.00 ft

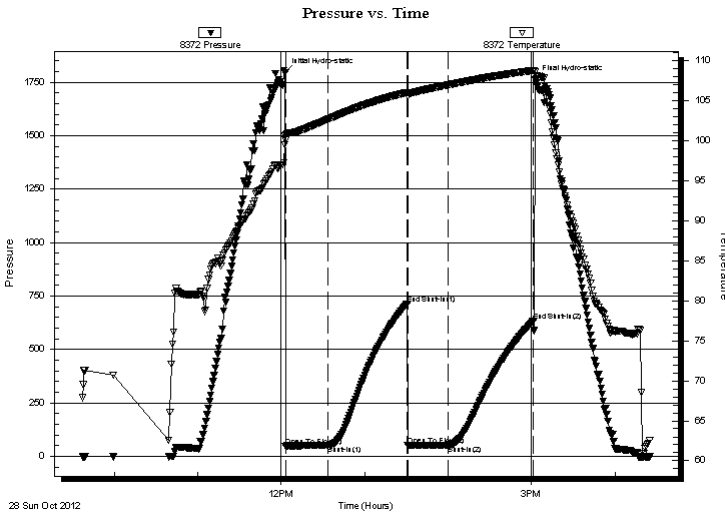
Serial #: 8372

Inside

Press @ RunDepth: 53.20 psig @ 3595.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.10.28 End Date: 2012.10.28 Last Calib.: 2012.10.28
 Start Time: 09:37:05 End Time: 16:25:40 Time On Btm: 2012.10.28 @ 12:02:50
 Time Off Btm: 2012.10.28 @ 15:02:30

TEST COMMENT: 30 - IF- Built to 1/2" in 10 Min. and stayed at 1/2"
 60 - IS- No blow back
 30 - FF- 1/4" blow
 60 - FS- No blow back.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1795.64	100.61	Initial Hydro-static
1	48.51	100.07	Open To Flow (1)
31	51.30	102.72	Shut-In(1)
88	712.77	106.06	End Shut-In(1)
88	50.81	105.62	Open To Flow (2)
118	53.20	107.00	Shut-In(2)
179	634.66	108.82	End Shut-In(2)
180	1763.63	108.62	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	Mud w ith Oil Spots, 100%M	0.05

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Company Inc.

28-11s-20w Ellis,KS

250 N. Water STE 300
Wichita KS 67202

Keller Aust #1-28

Job Ticket: 51021

DST#: 1

ATTN: Paul Gunzelman

Test Start: 2012.10.28 @ 09:37:00

Tool Information

Drill Pipe:	Length: 3487.00 ft	Diameter: 3.80 inches	Volume: 48.91 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 31.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 52000.00 lb
			<u>Total Volume: 49.06 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	17.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	3525.00 ft			Final 48000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	73.00 ft			
Tool Length:	97.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3502.00	
Shut In Tool	5.00			3507.00	
Hydraulic tool	5.00			3512.00	
Safety Joint	3.00			3515.00	
Packer	5.00			3520.00	24.00 Bottom Of Top Packer
Packer	5.00			3525.00	
Stubb	1.00			3526.00	
Perforations	5.00			3531.00	
Change Over Sub	1.00			3532.00	
Blank Spacing	62.00			3594.00	
Change Over Sub	1.00			3595.00	
Recorder	0.00	8372	Inside	3595.00	
Recorder	0.00	8017	Outside	3595.00	
Bullnose	3.00			3598.00	73.00 Bottom Packers & Anchor

Total Tool Length: 97.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Company Inc.

28-11s-20w Ellis,KS

250 N. Water STE 300
Wichita KS 67202

Keller Aust #1-28

Job Ticket: 51021

DST#: 1

ATTN: Paul Gunzelman

Test Start: 2012.10.28 @ 09:37:00

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: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.76 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3500.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	Mud with Oil Spots, 100%M	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:

Serial #: 8372

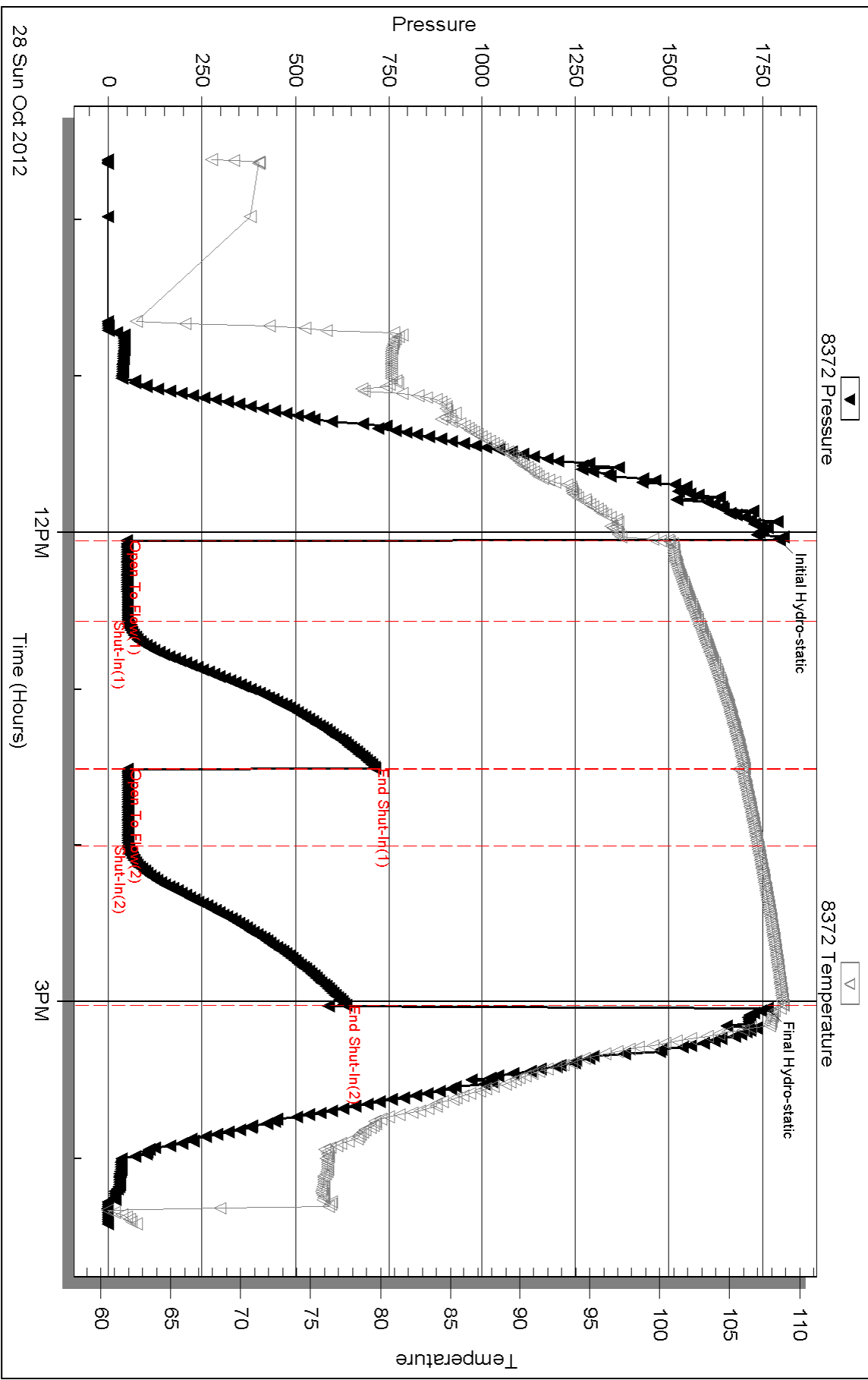
Inside

Murfin Drilling Company Inc.

Keller Aust #1-28

DST Test Number: 1

Pressure vs. Time



Triobite Testing, Inc

Ref. No: 51021

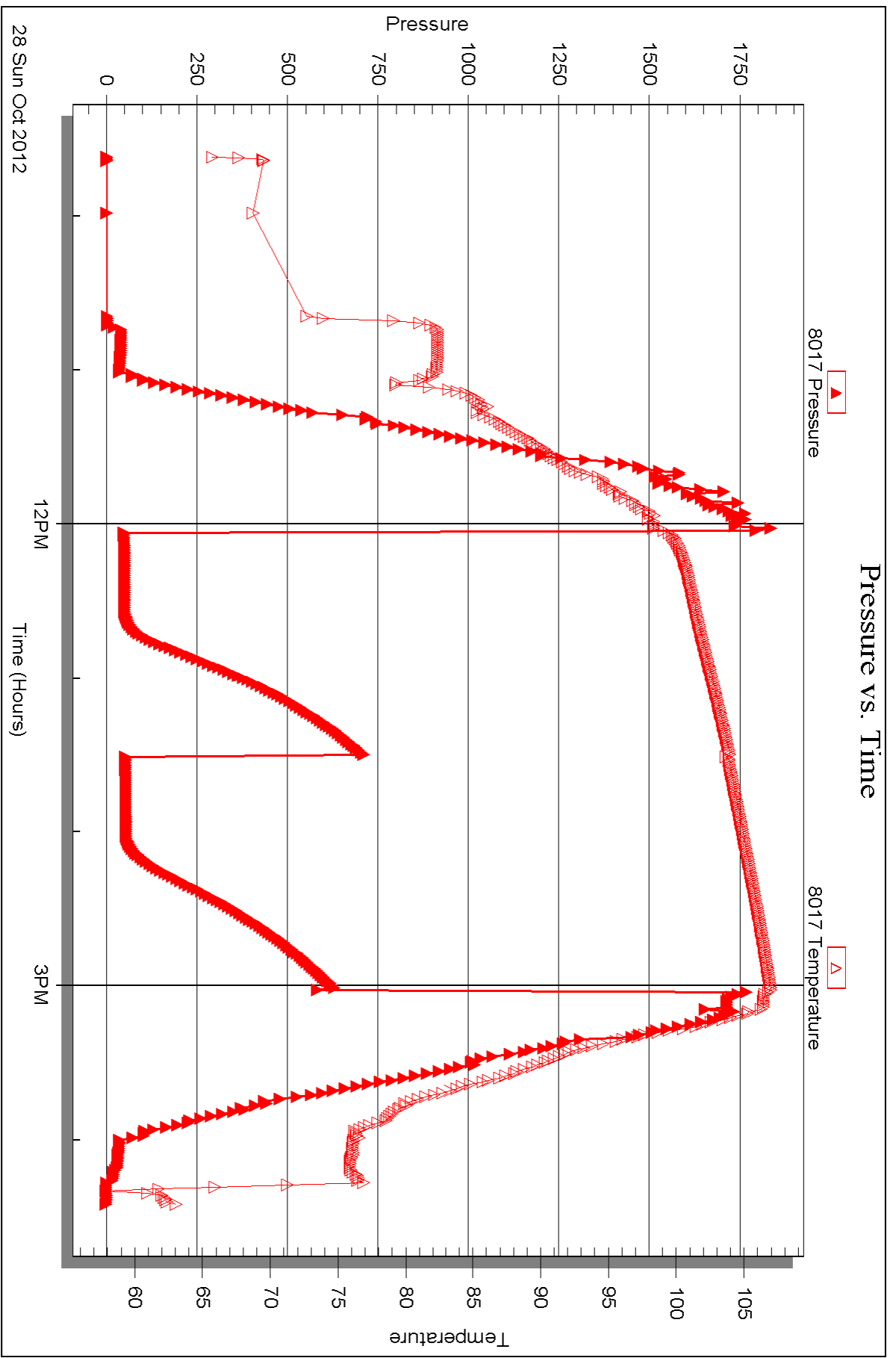
Printed: 2012.11.05 @ 13:28:36

Serial #: 8017

Outside Murfin Drilling Company Inc.

Keller Aust #1-28

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 51021

Printed: 2012.11.05 @ 13:28:36



DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company Inc.**

250 N. Water STE 300
Wichita KS 67202

ATTN: Paul Gunzelman

Keller Aust #1-28

28-11s-20w Ellis,KS

Start Date: 2012.10.29 @ 11:26:05

End Date: 2012.10.29 @ 17:23:39

Job Ticket #: 49362 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2012.11.05 @ 13:27:10

Murfin Drilling Company Inc. 28-11s-20w Ellis,KS Keller Aust #1-28 DST # 2 LKC "I-K" 2012.10.29



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Drilling Company Inc.

28-11s-20w Ellis,KS

250 N. Water STE 300
Wichita KS 67202

Keller Aust #1-28

Job Ticket: 49362

DST#: 2

ATTN: Paul Gunzelman

Test Start: 2012.10.29 @ 11:26:05

GENERAL INFORMATION:

Formation: **LKC"I-K"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:59:40

Time Test Ended: 17:23:39

Test Type: Conventional Bottom Hole (Reset)

Tester: Andy Carreira

Unit No: 39

Interval: 3684.00 ft (KB) To 3744.00 ft (KB) (TVD)

Reference Elevations: 2212.00 ft (KB)

Total Depth: 3744.00 ft (KB) (TVD)

2207.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8372 Inside

Press @ RunDepth: 18.37 psig @ 3691.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.10.29

End Date:

2012.10.29

Last Calib.:

2012.10.29

Start Time:

11:26:05

End Time:

17:23:40

Time On Btm:

2012.10.29 @ 12:59:10

Time Off Btm:

2012.10.29 @ 16:01:09

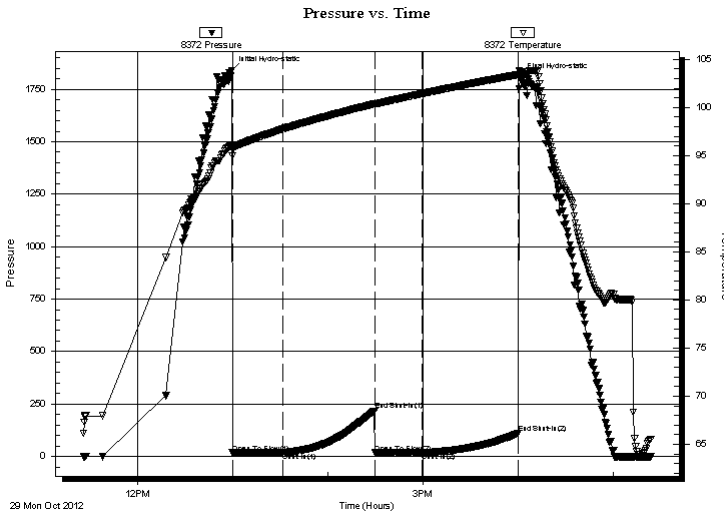
TEST COMMENT: IF:(30min) Blow died in 6 min.

ISl:(60min) No Return

FF:(30min) No Blow

FSl:(60min) No Return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1840.17	96.13	Initial Hydro-static
1	16.72	94.97	Open To Flow (1)
33	17.91	97.73	Shut-In(1)
91	218.07	100.37	End Shut-In(1)
91	16.98	100.28	Open To Flow (2)
121	18.37	101.43	Shut-In(2)
181	110.84	103.41	End Shut-In(2)
182	1807.35	103.71	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
3.00	Mud w / oil spks in tool	0.01

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Company Inc.

28-11s-20w Ellis,KS

250 N. Water STE 300
Wichita KS 67202

Keller Aust #1-28

Job Ticket: 49362

DST#: 2

ATTN: Paul Gunzelman

Test Start: 2012.10.29 @ 11:26:05

Tool Information

Drill Pipe:	Length: 3645.00 ft	Diameter: 3.80 inches	Volume: 51.13 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 24000.00 lb
Drill Collar:	Length: 31.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 58000.00 lb
			<u>Total Volume: 51.28 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 51000.00 lb
Depth to Top Packer:	3684.00 ft			Final 51000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	60.00 ft			
Tool Length:	83.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
------------------	-------------	------------	----------	------------	----------------

Change Over Sub	1.00			3662.00	
Shut In Tool	5.00			3667.00	
Hydraulic tool	5.00			3672.00	
Safety Joint	3.00			3675.00	
Packer	5.00			3680.00	23.00 Bottom Of Top Packer
Packer	4.00			3684.00	
Stubb	1.00			3685.00	
Perforations	5.00			3690.00	
Change Over Sub	1.00			3691.00	
Recorder	0.00	8372	Inside	3691.00	
Recorder	0.00	8017	Outside	3691.00	
Drill Pipe	32.00			3723.00	
Perforations	18.00			3741.00	
Bullnose	3.00			3744.00	60.00 Bottom Packers & Anchor

Total Tool Length: 83.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Company Inc.

28-11s-20w Ellis,KS

250 N. Water STE 300
Wichita KS 67202

Keller Aust #1-28

Job Ticket: 49362

DST#: 2

ATTN: Paul Gunzelman

Test Start: 2012.10.29 @ 11:26:05

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: 6.37 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4600.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
3.00	Mud w / oil spks in tool	0.015

Total Length: 3.00 ft Total Volume: 0.015 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8372

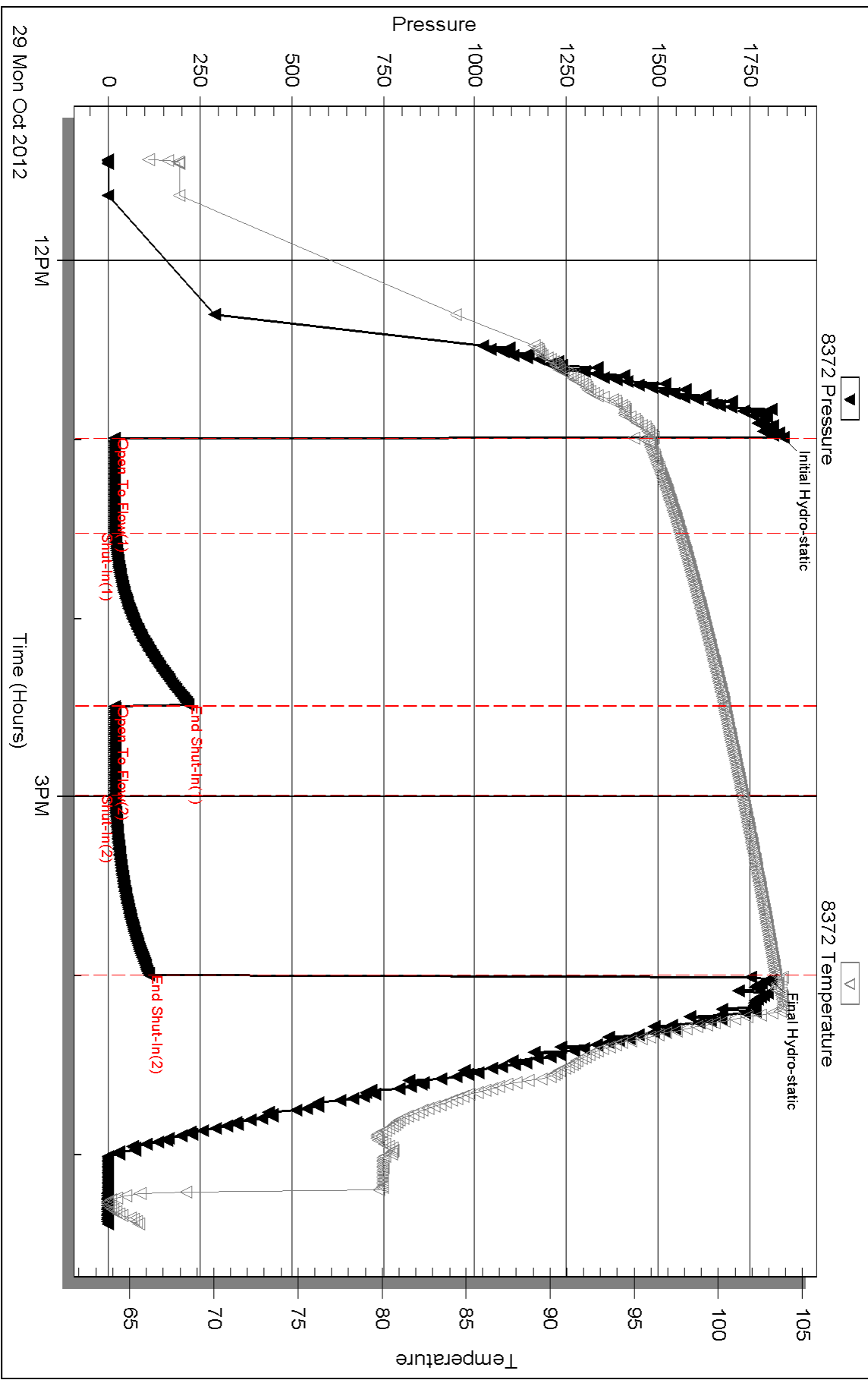
Inside

Murfin Drilling Company Inc.

Keller Aust #1-28

DST Test Number: 2

Pressure vs. Time

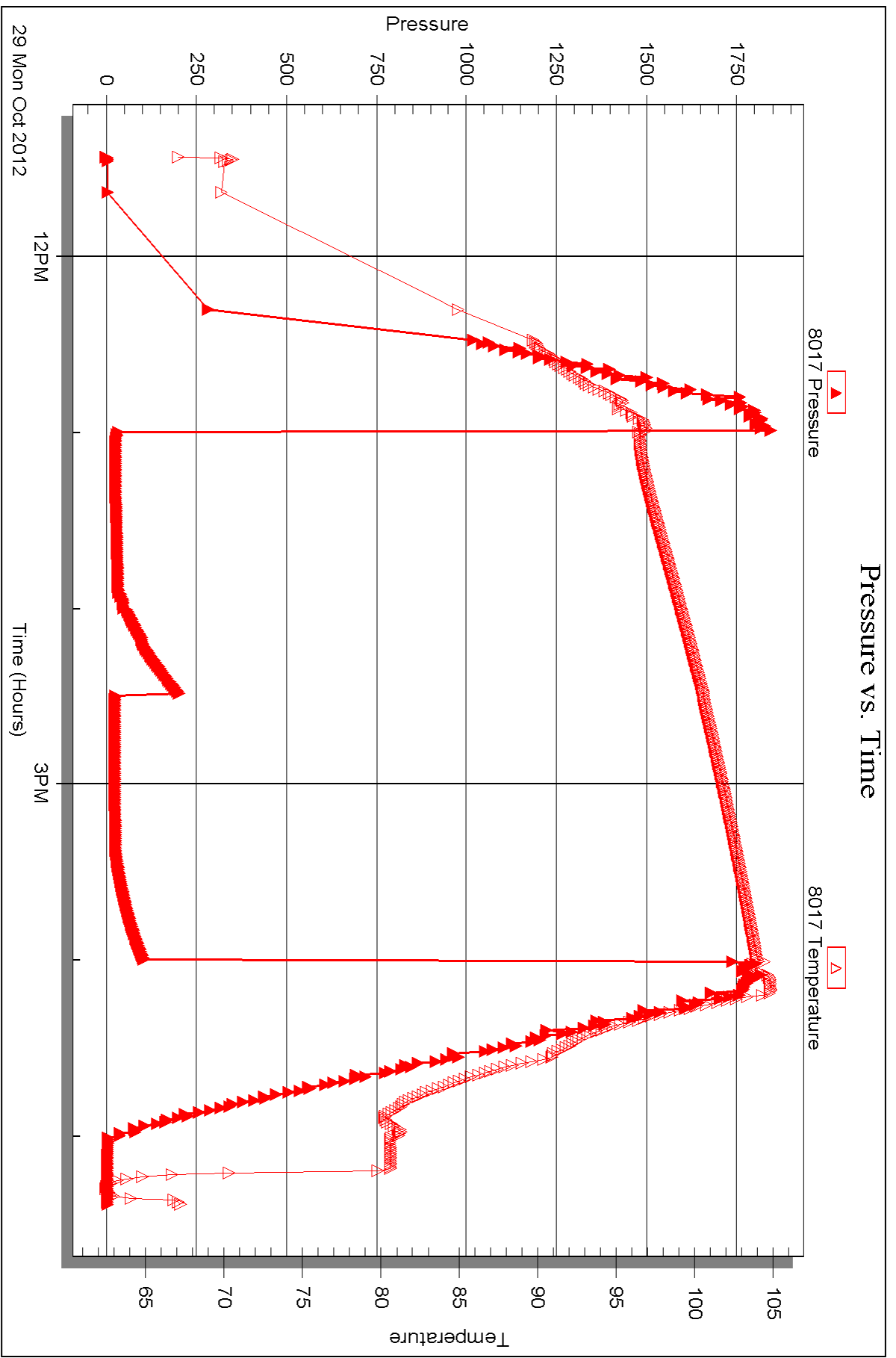


Serial #: 8017

Outside Murfin Drilling Company Inc.

Keller Aust #1-28

DST Test Number: 2



Triobite Testing, Inc

Ref. No: 49362

Printed: 2012.11.05 @ 13:27:18



DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company Inc.**

250 N. Water STE 300
Wichita KS 67202

ATTN: Paul Gunzelman

Keller Aust #1-28

28-11s-20w Ellis,KS

Start Date: 2012.10.30 @ 05:50:05

End Date: 2012.10.30 @ 14:00:09

Job Ticket #: 49363 DST #: 3

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2012.11.05 @ 13:26:10

Murfin Drilling Company Inc.
28-11s-20w Ellis,KS
Keller Aust #1-28
DST # 3
Arbuckle
2012.10.30



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Company Inc.

28-11s-20w Ellis,KS

250 N. Water STE 300
Wichita KS 67202

Keller Aust #1-28

Job Ticket: 49363

DST#: 3

ATTN: Paul Gunzelman

Test Start: 2012.10.30 @ 05:50:05

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:45:20

Time Test Ended: 14:00:09

Test Type: Conventional Bottom Hole (Reset)

Tester: Cody Bloedorn

Unit No: 39

Interval: 3825.00 ft (KB) To 3858.00 ft (KB) (TVD)

Reference Elevations: 2212.00 ft (KB)

Total Depth: 3858.00 ft (KB) (TVD)

2207.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8372 Inside

Press @ Run Depth: 155.80 psig @ 3826.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.10.30

End Date: 2012.10.30

Last Calib.: 2012.10.30

Start Time: 05:50:05

End Time: 14:00:10

Time On Btm: 2012.10.30 @ 07:45:10

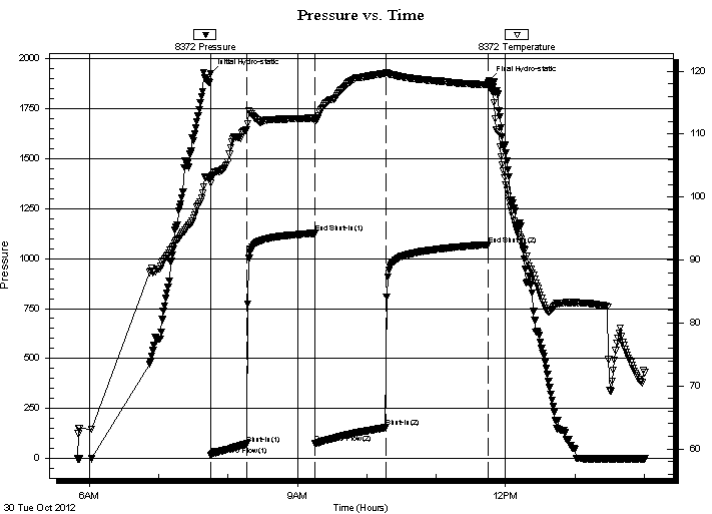
Time Off Btm: 2012.10.30 @ 11:45:50

TEST COMMENT: IF:(30min) 2" blow in 6 min. 6" in 15 min. 8" in 19 min. BOB in 27 min.

ISl:(60min) No Return

FF:(60min) 2" blow in 5 min. 6" in 15 min. 8" in 21 min. BOB in 31 min.

FSl:(90min) No Return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1925.12	103.12	Initial Hydro-static
1	16.74	102.17	Open To Flow (1)
32	73.35	110.61	Shut-In(1)
91	1127.23	112.56	End Shut-In(1)
91	75.95	112.03	Open To Flow (2)
152	155.80	119.67	Shut-In(2)
240	1070.66	117.84	End Shut-In(2)
241	1891.73	117.55	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	OSMW o=tr m=20% w =80%	0.56
60.00	MCWO m=10% o=20% w =70%	0.84
135.00	MCGO g=5% m=10% o=85%	1.89
85.00	GO g=15% o=85%	1.19

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Company Inc.

28-11s-20w Ellis,KS

250 N. Water STE 300
Wichita KS 67202

Keller Aust #1-28

Job Ticket: 49363

DST#: 3

ATTN: Paul Gunzelman

Test Start: 2012.10.30 @ 05:50:05

Tool Information

Drill Pipe:	Length: 3802.00 ft	Diameter: 3.80 inches	Volume: 53.33 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 24000.00 lb
Drill Collar:	Length: 31.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 53.48 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	3825.00 ft			Final 54000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	33.00 ft			
Tool Length:	56.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3803.00	
Shut In Tool	5.00			3808.00	
Hydraulic tool	5.00			3813.00	
Safety Joint	3.00			3816.00	
Packer	5.00			3821.00	23.00 Bottom Of Top Packer
Packer	4.00			3825.00	
Stubb	1.00			3826.00	
Recorder	0.00	8372	Inside	3826.00	
Recorder	0.00	8017	Outside	3826.00	
Perforations	29.00			3855.00	
Bullnose	3.00			3858.00	33.00 Bottom Packers & Anchor

Total Tool Length: 56.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Company Inc.

28-11s-20w Ellis,KS

250 N. Water STE 300
Wichita KS 67202

Keller Aust #1-28

Job Ticket: 49363

DST#: 3

ATTN: Paul Gunzelman

Test Start: 2012.10.30 @ 05:50:05

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:

20000 ppm

Viscosity: 57.00 sec/qt

Cushion Volume:

bbf

Water Loss: 6.38 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4600.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
60.00	OSMW o=tr m=20% w=80%	0.559
60.00	MCWO m=10% o=20% w=70%	0.842
135.00	MCGO g=5% m=10% o=85%	1.894
85.00	GO g=15% o=85%	1.192

Total Length: 340.00 ft

Total Volume: 4.487 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

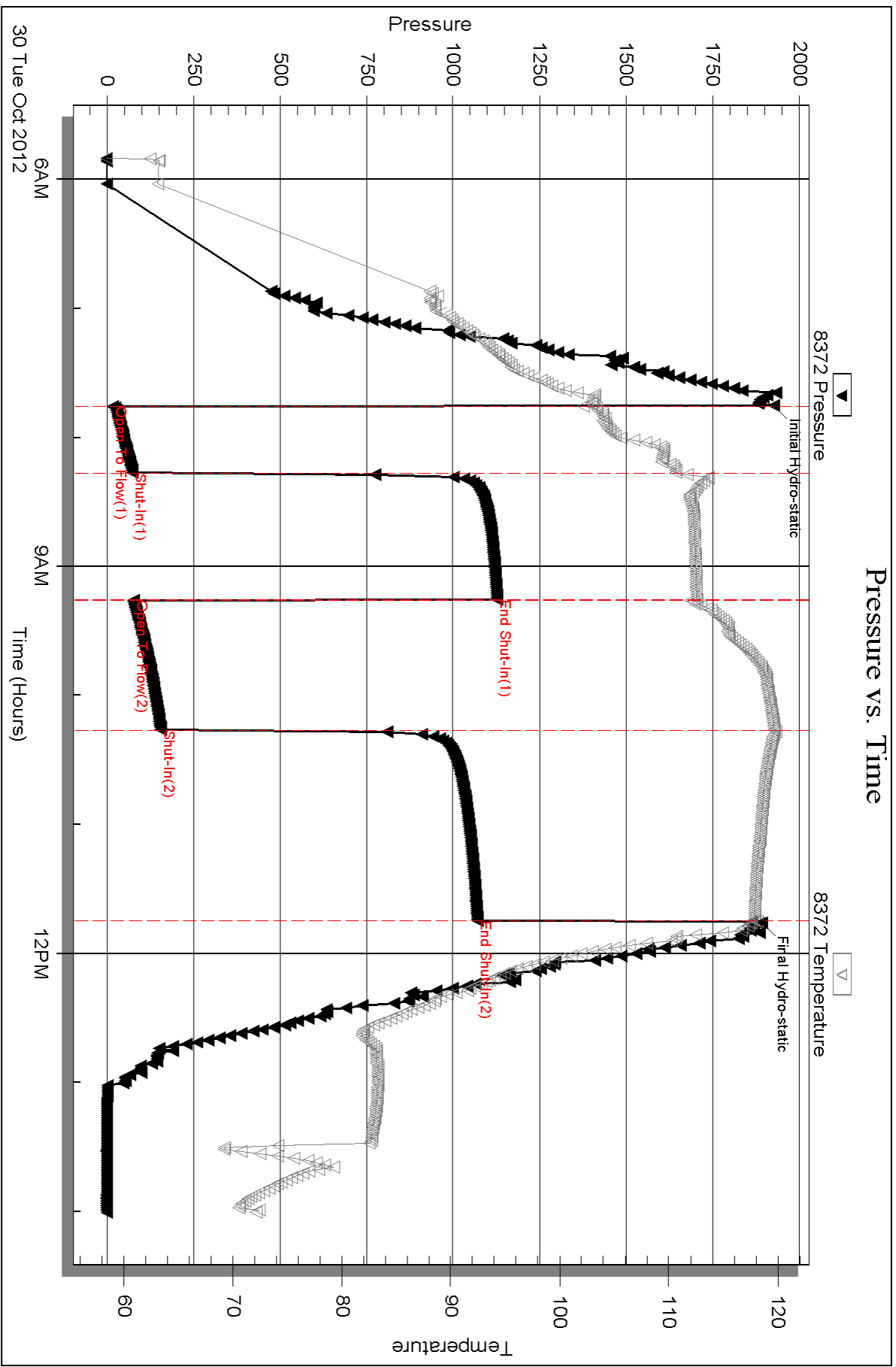
Serial #: 8372

Inside

Murfin Drilling Company Inc.

Keller Aust #1-28

DST Test Number: 3

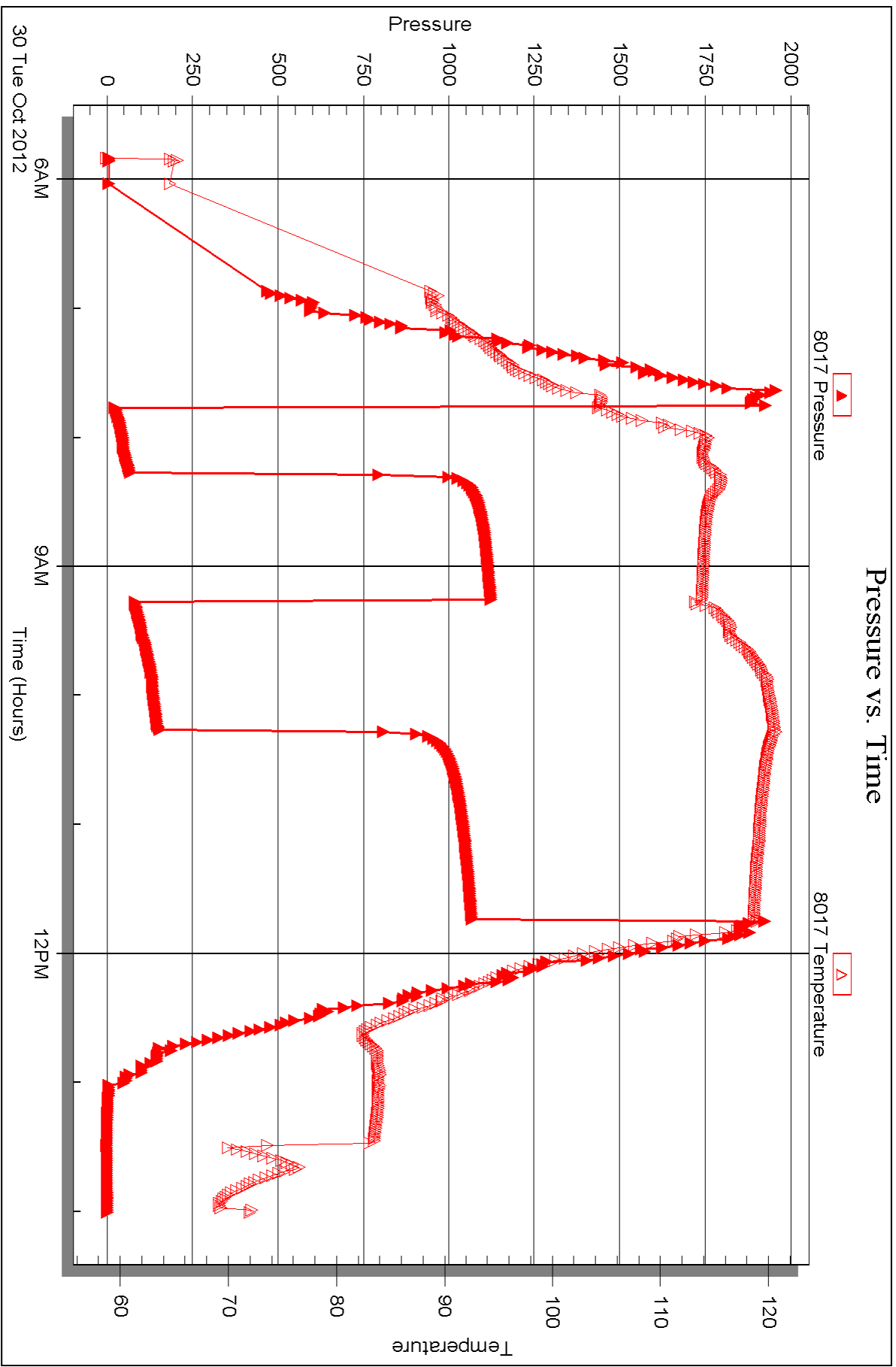


Serial #: 8017

Outside Murfin Drilling Company Inc.

Keller Aust #1-28

DST Test Number: 3





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company Inc.**

250 N. Water STE 300
Wichita KS 67202

ATTN: Paul Gunzelman

Keller Aust #1-28

28-11s-20w Ellis,KS

Start Date: 2012.10.30 @ 18:51:05

End Date: 2012.10.31 @ 01:19:50

Job Ticket #: 49364 DST #: 4

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2012.11.05 @ 13:25:26



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Company Inc.

28-11s-20w Ellis,KS

250 N. Water STE 300
Wichita KS 67202

Keller Aust #1-28

Job Ticket: 49364

DST#: 4

ATTN: Paul Gunzelman

Test Start: 2012.10.30 @ 18:51:05

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:35:40

Time Test Ended: 01:19:50

Test Type: Conventional Bottom Hole (Reset)

Tester: Cody Bloedorn

Unit No: 39

Interval: 3858.00 ft (KB) To 3864.00 ft (KB) (TVD)

Reference Elevations: 2212.00 ft (KB)

Total Depth: 3864.00 ft (KB) (TVD)

2207.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8372 Inside

Press @ RunDepth: 32.43 psig @ 3859.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.10.30

End Date:

2012.10.31

Last Calib.: 2012.10.31

Start Time: 18:51:05

End Time:

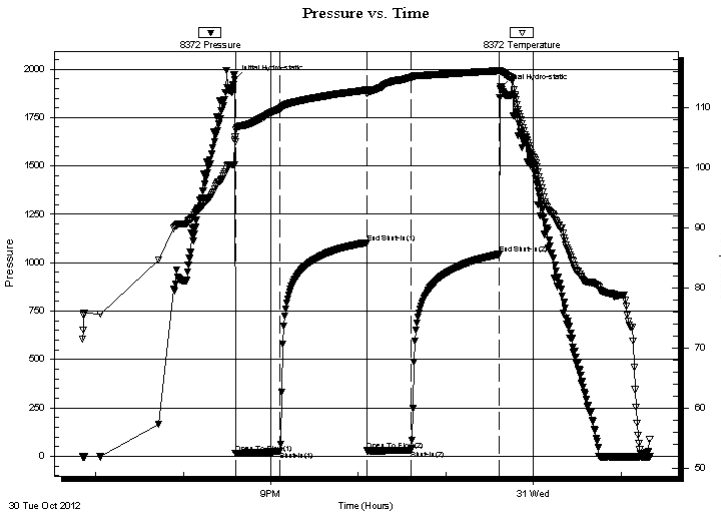
01:19:50

Time On Btm: 2012.10.30 @ 20:35:20

Time Off Btm: 2012.10.30 @ 23:37:20

TEST COMMENT: IF:(30min) Weak Surface Blow , died in 27 min
IS:(60min) No Return
FF:(30min) No Blow
FS:(60min) No Return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1946.61	104.66	Initial Hydro-static
1	17.50	104.44	Open To Flow (1)
31	25.94	109.88	Shut-In(1)
91	1104.41	112.98	End Shut-In(1)
91	29.40	112.38	Open To Flow (2)
121	32.43	115.10	Shut-In(2)
181	1043.71	116.20	End Shut-In(2)
182	1899.29	116.10	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	MW m=20% w=80%	0.10

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Company Inc.

28-11s-20w Ellis,KS

250 N. Water STE 300
Wichita KS 67202

Keller Aust #1-28

Job Ticket: 49364

DST#: 4

ATTN: Paul Gunzelman

Test Start: 2012.10.30 @ 18:51:05

Tool Information

Drill Pipe:	Length: 3808.00 ft	Diameter: 3.80 inches	Volume: 53.42 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 31.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 53.57 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	4.00 ft			String Weight: Initial 51000.00 lb
Depth to Top Packer:	3858.00 ft			Final 51000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	6.00 ft			
Tool Length:	29.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
------------------	-------------	------------	----------	------------	----------------

Change Over Sub	1.00			3836.00	
Shut In Tool	5.00			3841.00	
Hydraulic tool	5.00			3846.00	
Safety Joint	3.00			3849.00	
Packer	5.00			3854.00	23.00 Bottom Of Top Packer
Packer	4.00			3858.00	
Stubb	1.00			3859.00	
Recorder	0.00	8372	Inside	3859.00	
Recorder	0.00	8017	Outside	3859.00	
Perforations	2.00			3861.00	
Bullnose	3.00			3864.00	6.00 Bottom Packers & Anchor

Total Tool Length: 29.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Company Inc.

28-11s-20w Ellis,KS

250 N. Water STE 300
Wichita KS 67202

Keller Aust #1-28

Job Ticket: 49364

DST#: 4

ATTN: Paul Gunzelman

Test Start: 2012.10.30 @ 18:51:05

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:

20000 ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbf

Water Loss: 5.98 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5200.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
20.00	MW m=20% w=80%	0.098

Total Length: 20.00 ft Total Volume: 0.098 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

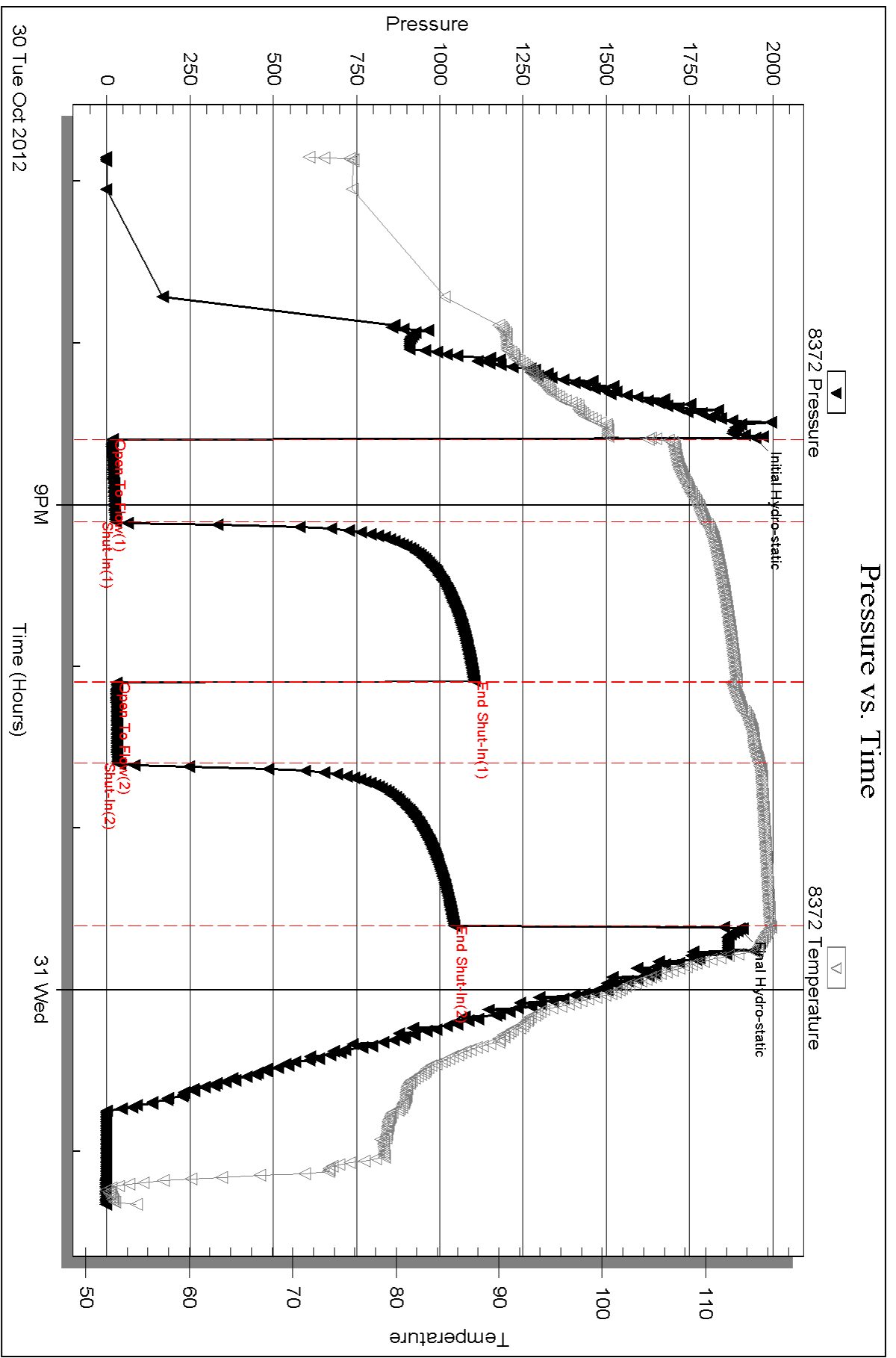
Serial #: 8372

Inside

Murfin Drilling Company Inc.

Keller Aust #1-28

DST Test Number: 4

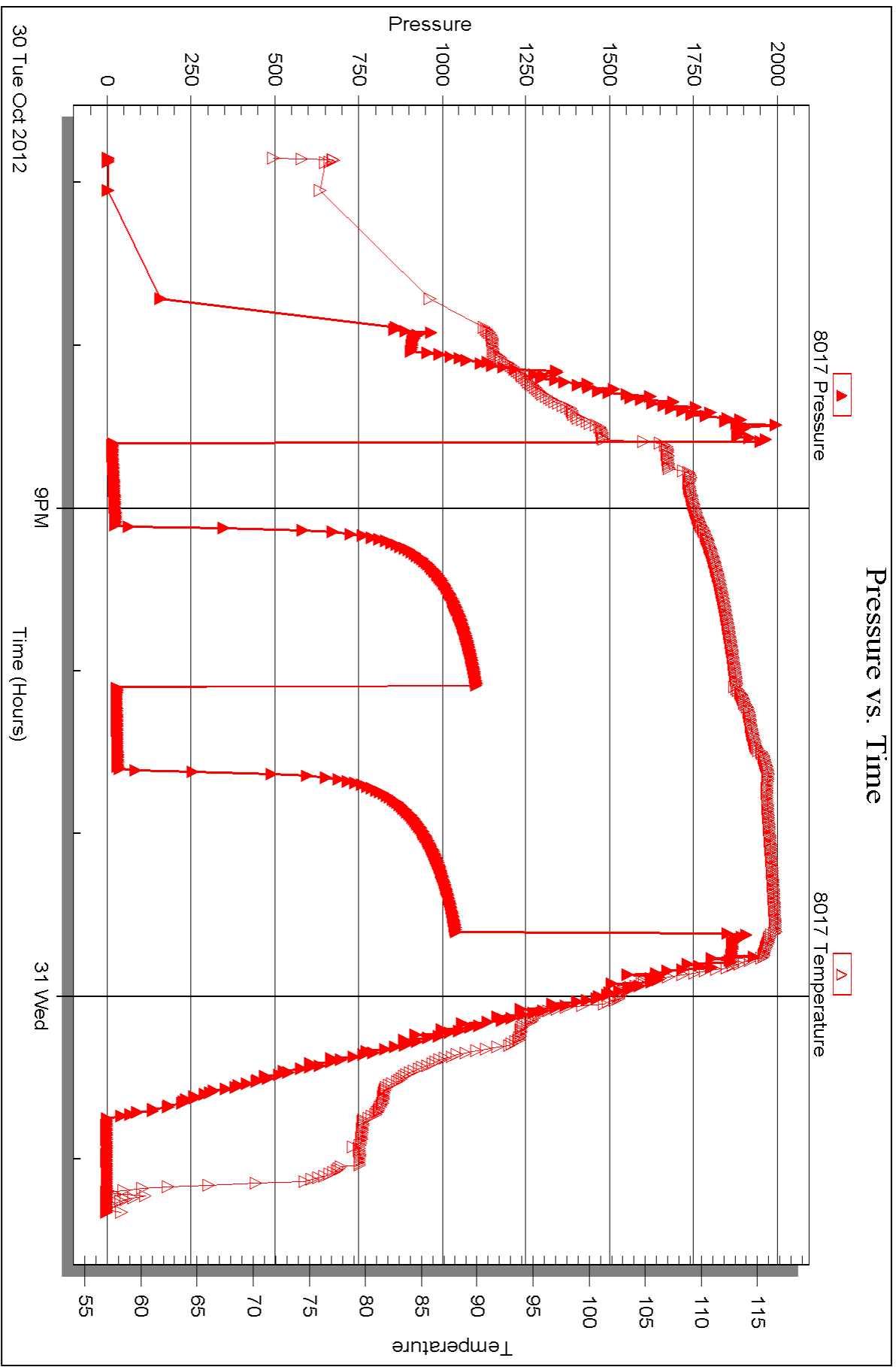


Serial #: 8017

Outside Murfin Drilling Company Inc.

Keller Aust #1-28

DST Test Number: 4





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company Inc.**

250 N. Water STE 300
Wichita KS 67202

ATTN: Paul Gunzelman

Keller Aust #1-28

28-11s-20w Ellis,KS

Start Date: 2012.10.31 @ 07:14:05

End Date: 2012.10.31 @ 14:49:39

Job Ticket #: 49365 DST #: 5

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2012.11.05 @ 13:24:39



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Company Inc.

28-11s-20w Ellis,KS

250 N. Water STE 300
Wichita KS 67202

Keller Aust #1-28

Job Ticket: 49365

DST#: 5

ATTN: Paul Gunzelman

Test Start: 2012.10.31 @ 07:14:05

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:59:50

Time Test Ended: 14:49:39

Test Type: Conventional Bottom Hole (Reset)

Tester: Andy Carreira

Unit No: 39

Interval: 3864.00 ft (KB) To 3870.00 ft (KB) (TVD)

Reference Elevations: 2212.00 ft (KB)

Total Depth: 3598.00 ft (KB) (TVD)

2207.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8372 Inside

Press @ Run Depth: 145.22 psig @ 3865.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.10.31

End Date: 2012.10.31

Last Calib.: 2012.10.31

Start Time: 07:14:05

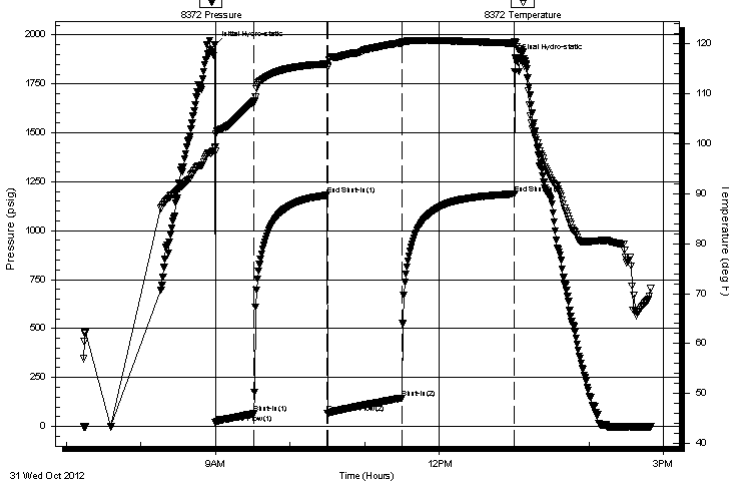
End Time: 14:49:40

Time On Btm: 2012.10.31 @ 08:59:40

Time Off Btm: 2012.10.31 @ 13:00:59

TEST COMMENT: IF:(30min) 2" blow in 6 min. 6" in 20 min. Built to 8" in 28 min.
ISl:(60min) No Return
FF:(60min) 2" blow in 5 min. 6" in 17 min. 8" in 24 min. BOB in 39 min.
FSl:(90min) No Return

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1947.57	99.37	Initial Hydro-static
1	17.72	98.50	Open To Flow (1)
32	65.36	108.41	Shut-In(1)
91	1181.49	115.94	End Shut-In(1)
91	66.74	115.32	Open To Flow (2)
151	145.22	120.19	Shut-In(2)
241	1187.74	120.09	End Shut-In(2)
242	1881.44	120.15	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
275.00	MW m=10% w=90%	3.58

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Company Inc.

28-11s-20w Ellis,KS

250 N. Water STE 300
Wichita KS 67202

Keller Aust #1-28

Job Ticket: 49365

DST#: 5

ATTN: Paul Gunzelman

Test Start: 2012.10.31 @ 07:14:05

Tool Information

Drill Pipe:	Length: 3840.00 ft	Diameter: 3.80 inches	Volume: 53.87 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	22000.00 lb
Drill Collar:	Length: 31.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose:	60000.00 lb
			<u>Total Volume: 54.02 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial	51000.00 lb
Depth to Top Packer:	3864.00 ft			Final	53000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	6.00 ft				
Tool Length:	29.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			
Tool Comments:					

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
------------------	-------------	------------	----------	------------	----------------

Change Over Sub	1.00			3842.00	
Shut In Tool	5.00			3847.00	
Hydraulic tool	5.00			3852.00	
Safety Joint	3.00			3855.00	
Packer	5.00			3860.00	23.00 Bottom Of Top Packer
Packer	4.00			3864.00	
Stubb	1.00			3865.00	
Recorder	0.00	8372	Inside	3865.00	
Recorder	0.00	8017	Outside	3865.00	
Perforations	2.00			3867.00	
Bullnose	3.00			3870.00	6.00 Bottom Packers & Anchor

Total Tool Length: 29.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Company Inc.

28-11s-20w Ellis,KS

250 N. Water STE 300
Wichita KS 67202

Keller Aust #1-28

Job Ticket: 49365

DST#: 5

ATTN: Paul Gunzelman

Test Start: 2012.10.31 @ 07:14:05

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:

16000 ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5200.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
275.00	MW m=10% w=90%	3.575

Total Length: 275.00 ft Total Volume: 3.575 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

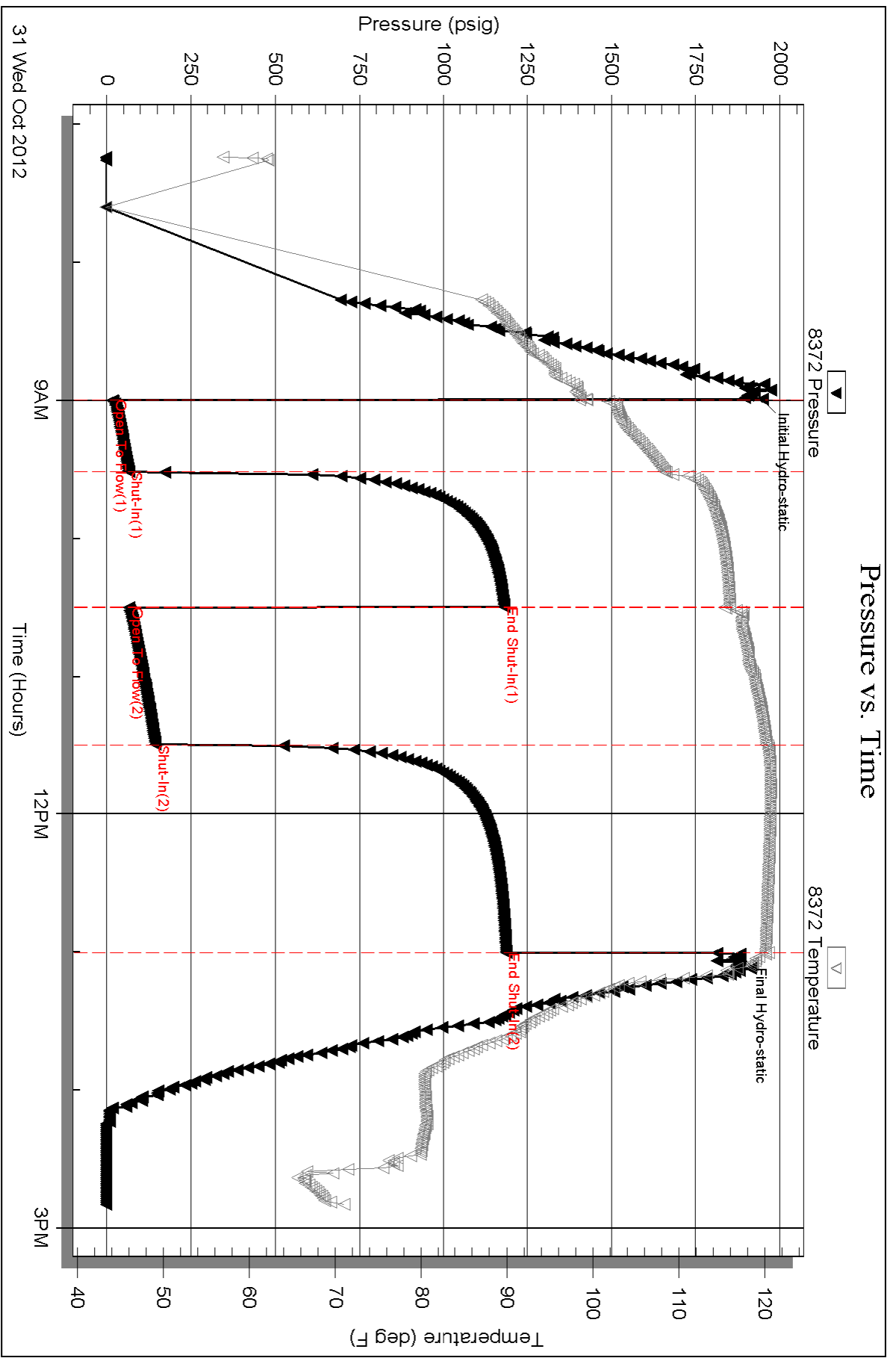
Serial #: 8372

Inside

Murfin Drilling Company Inc.

Keller Aust #1-28

DST Test Number: 5



Triobite Testing, Inc

Ref. No: 49365

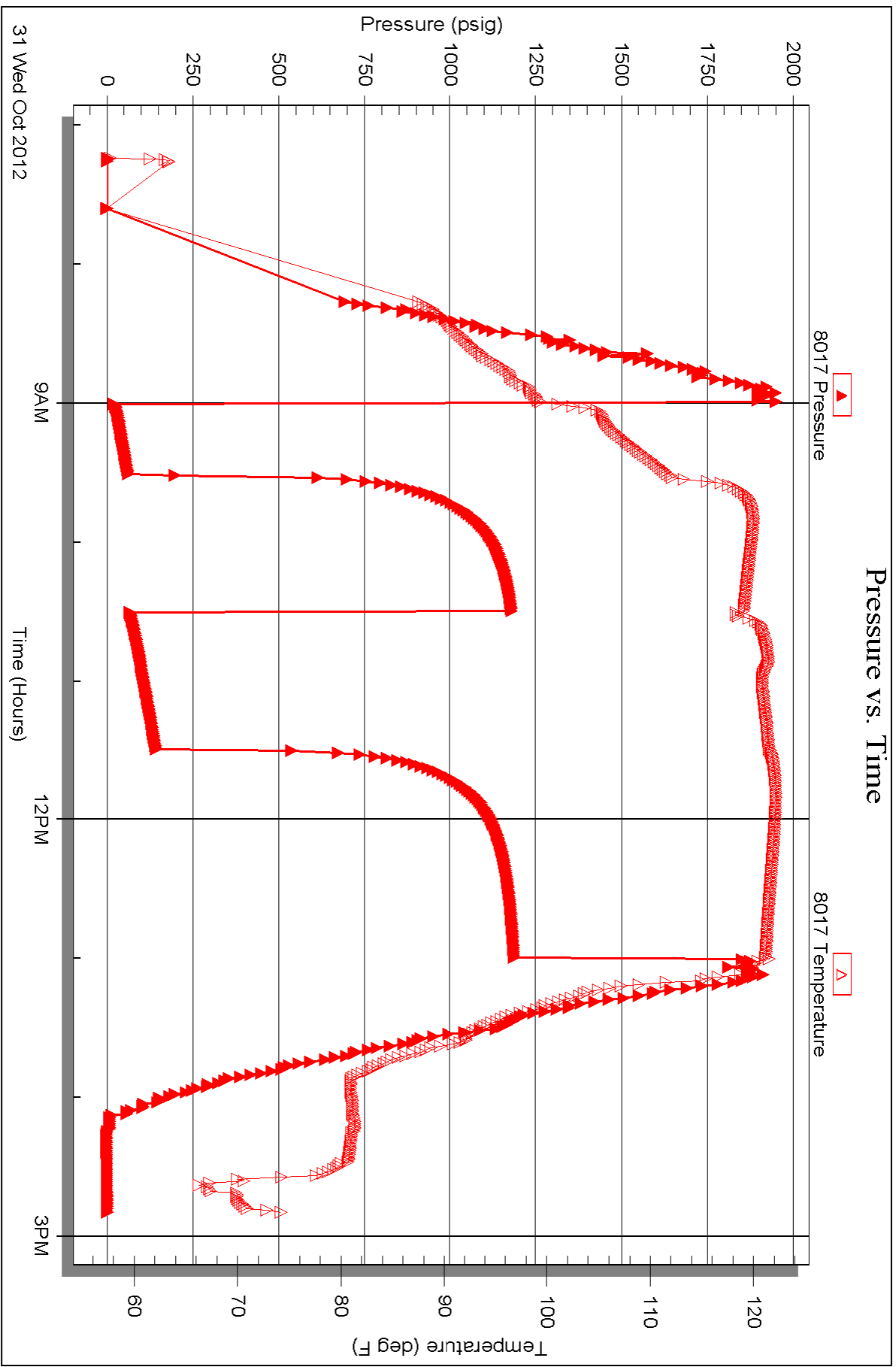
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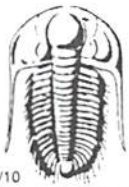
Serial #: 8017

Outside Murfin Drilling Company Inc.

Keller Aust #1-28

DST Test Number: 5





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 51021

4/10

Well Name & No. Keller - Aust 1-28 Test No. 1 Date 10-28-12
 Company Murfin Drilling Company, Inc Elevation 2212 KB 2207 GL
 Address 250 N Water STE 300, Wichita KS, 67202
 Co. Rep / Geo. Paul Gunzelman ~~Wichita~~ Rig Murfin 16
 Location: Sec. 28 Twp. 11s Rge. 20w Co. ELLIS State KS

Interval Tested 3525 ~~3525~~ 3598 Zone Tested LKC A-D
 Anchor Length 73' Drill Pipe Run 3487' Mud Wt. 8.8
 Top Packer Depth 3520 Drill Collars Run 31 Vis 52
 Bottom Packer Depth 3525 Wt. Pipe Run — WL 6.8
 Total Depth 3598 Chlorides 3500 ppm System LCM —

Blow Description IF - Built to 1/2" in 10 Min. & stayed @ 1/2"
ISI - No blow back.
FF - 1/4" blow
FSI - No blow back.

Rec	Feet of	%gas	%oil	%water	%mud
<u>10</u>	<u>Mud w/oil Spots</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 10' BHT 108° Gravity — API RW — @ — ° F Chlorides — ppm

(A) Initial Hydrostatic 1795 Test 1150 T-On Location 7:35am
 (B) First Initial Flow 48 Jars _____ T-Started 9:37am
 (C) First Final Flow 51 Safety Joint 75 T-Open 12:03pm
 (D) Initial Shut-In 712 Circ Sub _____ T-Pulled 3:03pm
 (E) Second Initial Flow 50 Hourly Standby _____ T-Out 4:25pm
 (F) Second Final Flow 53 Mileage 60RT 93 Comments _____
 (G) Final Shut-In 634 Sampler _____
 (H) Final Hydrostatic 1763 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____

Initial Open 30
 Initial Shut-In 60
 Final Flow 30
 Final Shut-In 60
 Sub Total 1318
 Total 1318
 MP/DST Disc't _____

Approved By _____ Our Representative Cody [Signature]

Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 49362

Well Name & No. Keller - Aust #1-28 Test No. 2 Date 10-29-12
 Company Mue Fin Delg. Co. Inc. Elevation 2212 KB 2207 GL
 Address 250 N Water, STE 300 Wichita Ks. 67202
 Co. Rep / Geo. Paul Gunzelman Rig Mue Fin 16
 Location: Sec. 28 Twp. 11S Rge. 20W Co. Ellis State Ks

Interval Tested 3684 - 3744 Zone Tested LKC "I-K"
 Anchor Length 60' Drill Pipe Run 3645' Mud Wt. 9.1
 Top Packer Depth 3679 Drill Collars Run ~~30~~ 31 Vis 57
 Bottom Packer Depth 3684 Wt. Pipe Run 0 WL 6.4
 Total Depth 3744 Chlorides 4600 ppm System LCM 0

Blow Description IT: Blow size in 6 min.
ISI: No Return
FF: No Blow
FSI: No Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>3</u>	<u>Feet of mud w/ oil spks in tool</u>				
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

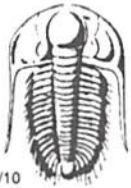
Rec Total 3 BHT 103 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 1840 Test 1150 T-On Location 11:07
 (B) First Initial Flow 16 Jars T-Started 11:26
 (C) First Final Flow 17 Safety Joint 75 T-Open 13:00
 (D) Initial Shut-In 218 Circ Sub T-Pulled 16:00
 (E) Second Initial Flow 16 Hourly Standby T-Out 17:24
 (F) Second Final Flow 18 Mileage 60RT 93 Comments _____
 (G) Final Shut-In 110 Sampler _____
 (H) Final Hydrostatic 1807 Straddle _____
 Shale Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____

Initial Open 30 Ruined Shale Packer _____
 Initial Shut-In 60 Ruined Packer _____
 Final Flow 30 Extra Copies _____
 Final Shut-In 60 Sub Total 0
 Total 1318
 Sub Total 1318 MP/DST Disc't _____

Approved By _____ Our Representative Paul Gunzelman

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TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 49363

Well Name & No. Keller - Aust #1-28 Test No. 3 Date 10-30-12
 Company Murfin Drilg Co, Inc Elevation 2212 KB 2207 GL
 Address 250 N Water STE 300 Wichita Ks. 67202
 Co. Rep / Geo. Paul Gunzelman Rig Murfin 16
 Location: Sec. 28 Twp. 11S Rge. 20W Co. Ellis State Ks

Interval Tested 3825-3858 Zone Tested Arbuckle
 Anchor Length 33' Drill Pipe Run 3802 Mud Wt. 9.1
 Top Packer Depth 3820 Drill Collars Run 31 Vis 57
 Bottom Packer Depth 3825 Wt. Pipe Run 0 WL 6.4
 Total Depth 3858 Chlorides 4600 ppm System LCM 0
 Blow Description IF: 2" blow in 6min, 6" in 15min, 8" in 19min, BOB in 27min
FF: NO RETURN
FF: 2" blow in 5min, 6" in 15min, 8" in 21min BOB in 31min
FST: NO RETURN

Rec	Feet of	%gas	%oil	%water	%mud
85	30	15	85		
135	MCGO	5	85		10
60	MCWO		20	70	10
60	OSMN			80	20

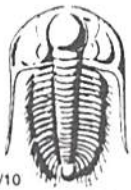
Rec Total 340 BHT 117 Gravity 20 API RW .41 @ 56 °F Chlorides 20,000 ppm

(A) Initial Hydrostatic 1925 Test ← 1150 T-On Location 05:16
 (B) First Initial Flow 16 Jars T-Started 05:50
 (C) First Final Flow 73 Safety Joint ← 75 T-Open 07:45
 (D) Initial Shut-In 1127 Circ Sub T-Pulled 11:45
 (E) Second Initial Flow 75 Hourly Standby T-Out 14:00
 (F) Second Final Flow 155 Mileage 60RT 93 Comments _____
 (G) Final Shut-In 1070 Sampler _____
 (H) Final Hydrostatic 1891 Straddle _____
 Shale Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____

Initial Open 30 Ruined Shale Packer _____
 Initial Shut-In 60 Ruined Packer _____
 Final Flow 60 Extra Copies _____
 Final Shut-In 90 Sub Total 0
 Total 1318
 Sub Total 1318 MP/DST Disc't _____

Approved By _____ Our Representative [Signature]

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TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 49364

Well Name & No. Keller - Aust #1-28 Test No. 4 Date 10-30-12
 Company Murfin Delg. Co. inc Elevation 2212 KB 2207 GL
 Address 250 N Water STE 300 Wichita Ks 67202
 Co. Rep / Geo. Paul Gunzelman Rig Murfin 16
 Location: Sec. 28 Twp. 11s Rge. 20W Co. Ellis State Ks

Interval Tested 3858-3864 Zone Tested Arbuckle
 Anchor Length 6' Drill Pipe Run 3808 Mud Wt. 9.3
 Top Packer Depth 3853 Drill Collars Run 31 Vis 5.6
 Bottom Packer Depth 3858 Wt. Pipe Run 0 WL 6.0
 Total Depth 3864 Chlorides 5200 ppm System LCM 3
 Blow Description IF: Weak surface blow, died in 27 min
ISI: NO Return
FF: NO Blow
FSI: NO Return

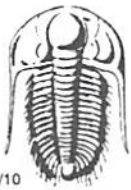
Rec	Feet of	%gas	%oil	%water	%mud
<u>20</u>	<u>Feet of MW</u>			<u>80</u>	<u>20</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 20 BHT 116° Gravity _____ API RW .57 @ 50 ° F Chlorides 20,000 ppm

(A) Initial Hydrostatic <u>1946</u>	<input checked="" type="checkbox"/> Test <u>←</u> 1150	T-On Location <u>18:13</u>
(B) First Initial Flow <u>17</u>	<input checked="" type="checkbox"/> Jars <u>←</u> 250	T-Started <u>18:51</u>
(C) First Final Flow <u>25</u>	<input checked="" type="checkbox"/> Safety Joint <u>←</u> 75	T-Open <u>20:36</u>
(D) Initial Shut-In <u>1104</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>23:36</u>
(E) Second Initial Flow <u>29</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>01:20</u>
(F) Second Final Flow <u>32</u>	<input checked="" type="checkbox"/> Mileage <u>← 60 RT</u> 93	Comments _____
(G) Final Shut-In <u>1043</u>	<input type="checkbox"/> Sampler _____	_____
(H) Final Hydrostatic <u>1899</u>	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> Ruined Shale Packer _____
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Ruined Packer _____
Initial Shut-In <u>60</u>	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Extra Copies _____
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder _____	Sub Total <u>0</u>
Final Shut-In <u>60</u>	<input type="checkbox"/> Day Standby _____	Total <u>1568</u>
	<input type="checkbox"/> Accessibility _____	MP/DST Disc't _____
	Sub Total <u>1568</u>	

Approved By _____ Our Representative [Signature]

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TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 49365

Well Name & No. Keller - Aust #1-28 Test No. 5 Date 10-31-12
 Company Murfin Delg. Co. Inc Elevation 2212 KB 2207 GL
 Address 250 N WATER STE 300 Wichita Ks. 67202
 Co. Rep / Geo. Paul Bunzelman Rig Murfin 16
 Location: Sec. 28 Twp. 11s Rge. 20W Co. Ellis State Ks

Interval Tested 3864 - 3870 Zone Tested Rebuckle
 Anchor Length 6 Drill Pipe Run 3840 Mud Wt. 9.3
 Top Packer Depth 3859 Drill Collars Run 31 Vis 56
 Bottom Packer Depth 3864 Wt. Pipe Run 0 WL 6.0
 Total Depth 3870 Chlorides 5200 ppm System LCM 3
 Blow Description IF: 2" blow in 6min. 6" in 20min. Built to 8" in 28min
ISI: NO Return
FF: 2" blow in 5min. 6" in 17min, 8" in 24min BOB in 39min
FST: NO Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>275'</u>	<u>MW</u>			<u>90%</u>	<u>10%</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 275' BHT 120° Gravity API RW .45 @ 64° F Chlorides 16000 ppm

(A) Initial Hydrostatic <u>1947</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>07:09</u>
(B) First Initial Flow <u>17</u>	<input type="checkbox"/> Jars	T-Started <u>07:14</u>
(C) First Final Flow <u>65</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>09:00</u>
(D) Initial Shut-In <u>1181</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>13:00</u>
(E) Second Initial Flow <u>66</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>14:50</u>
(F) Second Final Flow <u>145</u>	<input checked="" type="checkbox"/> Mileage <u>GORTE</u> 93	Comments
(G) Final Shut-In <u>1187</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>1881</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer
Initial Shut-In <u>60</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Final Flow <u>60</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Shut-In <u>90</u>	<input type="checkbox"/> Day Standby	Total <u>1318</u>
	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1318</u>	

Approved By _____ Our Representative Paul Bunzelman
 Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



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: 10/28/2012
 Invoice # 6078

acct. Prod-LizH.

P.O.#:

Due Date: 11/27/2012

Division: *Russell*

Invoice

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

USED FOR Drilling
 APPROVED [Signature]

Reference:
 KELLER-AUST 1-28

Description of Work:
 SURFACE JOB

Services / Items Included:	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 991.39	No				
Common-Class A	150	\$ 2,042.23	Yes				
Bulk Truck Matl-Material Service Charge	158	\$ 343.09	No				
Pump Truck Mileage-Job to Nearest Camp	28	\$ 303.39	No				
Calcium Chloride	5	\$ 258.73	Yes				
Bulk Truck Mileage-Job to Nearest Bulk Plant	28	\$ 177.54	No				
Premium Gel (Bentonite)	3	\$ 53.03	Yes				

Invoice Terms:

Net 30

SubTotal: \$ 4,169.38
 Discount Available ONLY if Invoice is Paid & Received within listed terms of invoice: \$ (625.41)

SubTotal for Taxable Items: \$ 2,000.88
 SubTotal for Non-Taxable Items: \$ 1,543.09

6.30% Ellis County Sales Tax

Total: \$ 3,543.97
 Tax: \$ 126.06

Thank You For Your Business!

Amount Due: \$ 3,670.03
Applied Payments:
Balance Due: \$ 3,670.03

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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OKM

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. 6078

Date	10-28-12	Sec.	28	Twp.	11	Range	20	County	Ellis	State	KS	On Location		Finish	8.16			
Lease	Kellar - Aust							Well No.	1-28		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.						
Contractor	Murfin 16							Location		Ellis N to Sleepy hollow 34 IV								
Type Job	Surface							Charge To		Murfin Drilling								
Hole Size	12 1/4							T.D.	218		Street					State		
Csg.	8 7/8							Depth	217.91		City					State		
Tbg. Size								Depth			The above was done to satisfaction and supervision of owner agent or contractor.							
Tool								Depth			Cement Amount Ordered							
Cement Left in Csg.	20 FT							Shoe Joint	20 FT		150 3%CC 2%gel							
Meas Line	Displace 12.5 BBL																	
EQUIPMENT													Common			150		
Pumptrk	5	No.	Cementer		matt				Poz. Mix									
Bulktrk	8	No.	Driver		Brett				Gel.		3							
Bulktrk	pu	No.	Driver		Jeri				Calcium		5							
JOB SERVICES & REMARKS													Hulls					
Remarks:													Salt					
Rat Hole													Flowseal					
Mouse Hole													Kol-Seal					
Centralizers													Mud CLR 48					
Baskets													CFL-117 or CD110 CAF 38					
D/V or Port Collar													Sand					
Cement did circulate													Handling			158		
													Mileage					
													FLOAT EQUIPMENT					
													Guide Shoe					
													Centralizer					
													Baskets					
													AFU Inserts					
													Float Shoe					
													Latch Down					
													Pumptrk Charge			Surface		
													Mileage			28		
X Signature													Tax					
													Discount					
													Total Charge					



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

Acct -

cc: MT
cc: Liz
cc: LR-1

Invoice

DATE	INVOICE #
11/1/2012	22931

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

- Acidizing
- Cement
- Tool Rental

IC 103
K R

TERMS	Well No.	Lease	County	Contractor	Well Type	Well Category	Job Purpose	Operator
Net 30	#1-28	Keller-Aust	Ellis	Company Rig	Oil	Development	Cement LongStri...	Don
PRICE REF.	DESCRIPTION				QTY	UM	UNIT PRICE	AMOUNT
575D	Mileage - 1 Way				30	Miles	6.00	180.00
578D-L	Pump Charge - Long String - 3948 Feet				1	Job	1,500.00	1,500.00
221	Liquid KCL (Clayfix)				4	Gallon(s)	25.00	100.00T
280	Flocheck 21				500	Gallon(s)	2.50	1,250.00T
290	D-Air				2	Gallon(s)	35.00	70.00T
409-5	5 1/2" Turbolizer				10	Each	90.00	900.00T
403-5	5 1/2" Cement Basket				1	Each	250.00	250.00T
404-5	5 1/2" Port Collar				1	Each	2,400.00	2,400.00T
406-5	5 1/2" Latch Down Plug & Baffle				1	Each	250.00	250.00T
407-5	5 1/2" Insert Float Shoe With Auto Fill				1	Each	350.00	350.00T
413-5	5 1/2" Roto Wall Scratcher				10	Each	40.00	400.00T
419-5	5 1/2" Rotating Head Rental				1	Each	200.00	200.00T
325	Standard Cement				200	Sacks	13.50	2,700.00T
276	Flocele				50	Lb(s)	2.00	100.00T
283	Salt				1,000	Lb(s)	0.20	200.00T
284	Calseal				10	Sack(s)	35.00	350.00T
285	CFR-1				141	Lb(s)	4.00	564.00T
581D	Service Charge Cement				200	Sacks	2.00	400.00
583D	Drayage				313.97	Ton Miles	1.00	313.97
	Subtotal							12,477.97
	Sales Tax Ellis County						6.30%	635.29

We Appreciate Your Business!

Total

\$13,113.26



Services, Inc.

CHARGE TO: Martin Digs Co
 ADDRESS: _____
 CITY, STATE, ZIP CODE: _____

TICKET
 No 22931

PAGE 1 OF 2

SERVICE LOCATION 1. <u>Hays, KS</u>	WELL/PROJECT NO. 1-28	LEASE <u>Keller - Acct</u>	COUNTY/PARISH <u>Ellis</u>	STATE <u>KS</u>	CITY	DATE 11-1-12	OWNER
2. <u>Ness City, KS</u>	TICKET TYPE SERVICE SALES	CONTRACTOR <u>CRS</u>	RIG NAME/NO. <u>#16</u>	SHIPPED VIA <u>CT</u>	DELIVERED TO <u>N/Ellis, KS</u>	ORDER NO.	
3.	WELL TYPE <u>211</u>	WELL CATEGORY <u>in field</u>	JOB PURPOSE <u>Cement Longstring</u>	WELL PERMIT NO.	WELL LOCATION		
4. REFERRAL LOCATION	INVOICE INSTRUCTIONS						

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.			UNIT PRICE	AMOUNT
		LOC	ACCT	DF		QTY.	UM	QTY.		
575					MILEAGE #113	30	mi		600	180.00
578					Heavy Charge - cut Longstring	1	ea	3948	1500.00	1500.00
281					Liquid RCL	4	gal		2500	10000
282					Fls-check - 21	500	gal		2.50	1250.00
290					D-Air	2	gal		3500	7000
410					Centralizers - Tubulizers	10	ea	5 1/2	9200	92000
423					Ceaf. Basket	1	ea	5 1/2	25000	25000
424					Bot Baller	1	ea	5 1/2	34000	34000
426					Latex Down Plug + Bottle	1	ea	5 1/2	35000	35000
427					Insert Hat Size / Hatcap	1	ea	5 1/2	35000	35000
413					For Well Services	1	ea	5 1/2	10000	10000
419					Rating Head Bottle	1	ea	5 1/2	20000	20000

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: 11-1-12 TIME SIGNED: 11:00 A.M. P.M.

SWIFT OPERATOR: Alan Freeman APPROVAL: _____

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

SURVEY
 OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?
 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?
 CUSTOMER DID NOT WISH TO RESPOND

TOTAL 13,113.26

Thank You!



PO Box 466
Ness City, KS 67560
Off: 785-798-2300

TICKET CONTINUATION

TICKET No. 22931

CUSTOMER Plurfin Dry Co WELL # 1-28 Keller Aust DATE 11-1-12 PAGE 2 OF 2

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			TIME	DESCRIPTION	WELL		DATE		UNIT PRICE	AMOUNT	
		LOC	ACCT	DF			QTY	U/M	QTY	U/M			
325		2				Standard Cement	200	SKS	1832	1bs	1352	270400	
276		2				Gravel	52	lbs			800	10000	
283		2				Gravel	1200	lbs			80	20000	
284		2				Gravel	940	lbs	10	SKS	3520	352000	
285		2				CFR-1	141	lbs			400	56400	
581		2				SERVICE CHARGE					200	40000	
583		2				MILEAGE CHARGE					100	31300	
							TOTAL WEIGHT	30					
							LOADED MILES	30					
							CUBIC FEET	200	SKS				
							TON MILES	313	965				
											CONTINUATION TOTAL	4687.97	

JOB LOG

SWIFT Services, Inc.

DATE 7-1-12 PAGE NO. 1

CUSTOMER *Martin Drilling Co.* WELL NO. *1-28* LEASE *Keller Aust* JOB TYPE *Cement Logging* TICKET NO. *22931*

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	10:40					15.5*	5 1/2	TD-3950'
	11:00							On loc - FE - Recharging over Start 5 1/2 - 16.5 #/ft casing to 3948'
								10 scratchers = 50' Insert float shoe / All up
								L.D. Baffle - SJ 20' @ 3928' = 93 1/2 BBL
								Cent - 1-2-3-4-6-8-10-12-14-52
								Cut Basket Fin end #53
								Port collar #53 collar @ 1676'
								Drop Ball up Ball 5 ft out
								Fin run casing - Tag - has st. Down
	12:45							Start CIR / Rotate casing Fin CIR
								Plug - 200 gals cement
		6	15					300 Pump 15 BBL KCL Plug
		5	12					200 Pump 500 gals Flo-ck 21
		5	5					200 Pump 5 BBL KCL Spacer
		4						200 Start 150 gals EA-2 - Limit
			36					Val Fin out - Wash out Pump / Lines
								Drop L.D. Plug
		9	0/15					300 Start Displ - 1st Tank KCL
		9	70					400 Catch lift
		8	80			700		500 Slow rate
		7	90			600		Slow rate
		6	98			700		Slow rate
	14:30		93 1/2			750		Plug Down - Hold - Release & Hold
			8			1500		Plug RH 30 gals EA-2 cement
	14:45							Job Complete Wash up & Packup
	15:00							Thanks Dan J. Brown L. B. ...

Arct - cc: wtf
 : hie
 : LR-1



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: 11/10/2012
 Invoice # 6170

P.O.#:

Due Date: 12/10/2012

Division: Russell

Invoice

USED FOR IC 103
 APPROVED [Signature]

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

Reference:
 KELLER TRUST 1-28
 TRUST
 TRUST

Description of Work:
 PORT COLLAR JOB

Services / Items Included:	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 991.39	No				
mon, MetsoBeads, Plater, Gel, FloSeal, Calcium)	220	\$ 4,566.95	Yes				
Bulk Truck Matl-Material Service Charge	250	\$ 542.86	No				
Pump Truck Mileage-Job to Nearest Camp	28	\$ 303.39	No				
Bulk Truck Mileage-Job to Nearest Bulk Plant	28	\$ 177.54	No				
Flo Seal	62	\$ 134.63	Yes				

Invoice Terms:

Net 30

SubTotal: \$ 6,716.75

Discount Available ONLY if Invoice is Paid & Received within listed terms of invoice: \$ (1,007.51)

SubTotal for Taxable Items: \$ 3,996.34

SubTotal for Non-Taxable Items: \$ 1,712.90

Total: \$ 5,709.24

Tax: \$ 251.77

Amount Due: \$ 5,961.01

Applied Payments:

Balance Due: \$ 5,961.01

6.30% Ellis County Sales Tax

Thank You For Your Business!

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. 6170

Date	11-8-12	Sec.	28	Twp.	11	Range	20	County	ELLIS	State	KANSAS	On Location		Finish	11:00 AM
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Location

Lease **KELLER-AUST**

Well No. **# 1-28**

Owner **MURFIN DRILLING**

Contractor **MURFIN**

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 **PORT-COLLAR**

Hole Size **7 1/2**

T.D. **3920**

Charge To **MURFIN DRILLING**

Csg. **5 1/2"**

Depth

Tbg. Size **2 7/8**

Depth

Tool **PORT COLLAR**

Depth **14.75**

Cement Left in Csg.

Shoe Joint

Meas Line

Displace

The above was done to satisfaction and supervision of owner agent or contractor.

Cement Amount Ordered **250 QMDC 1/4 LB FLO SEAL**

EQUIPMENT

Pumptrk #15	No.	Cement Helper	NECK
Bulktrk #8	No.	Driver	HEATH
Bulktrk D/U	No.	Driver	CISCO

Common
Poz. Mix
Gel.
Calcium
Hulls
Salt
Flowseal 62#
Kol-Seal
Mud CLR 48
CFL-117 or CD110 CAF 38
Sand
Handling 250
Mileage

JOB SERVICES & REMARKS

Remarks:
Rat Hole
Mouse Hole
Centralizers
Baskets
D/V or Port Collar
TESTED TOOL 1000LB - TOOL HELD
ESTABLISHED CIRCULATION - MIXED
& PUMPED 250 SKS - PULLED
UPCLOSED TOOL & TESTED 1,000LB
TOOL HELD. RAN 5 JOINTS & WASHED
OUT. TWO FLAGS.

FLOAT EQUIPMENT

Guide Shoe
Centralizer
Baskets
AFU Inserts
Float Shoe
Latch Down

Pumptrk Charge **28 port collar**
Mileage

THANK YOU
Mark Robben

Tax
Discount
Total Charge