



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1116540
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: _____



1116540

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 <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 List All E. Logs Run: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

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

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

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____ <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Conservation Division
Finney State Office Building
130 S. Market, Rm. 2078
Wichita, KS 67202-3802



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

Mark Sievers, Chairman
Thomas E. Wright, Commissioner
Shari Feist Albrecht, Commissioner

Sam Brownback, Governor

February 14, 2013

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

Re: ACO1
API 15-051-26418-00-00
Haneke Inv 1-18
NW/4 Sec.18-11S-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 Haneke Inv #1-18 2550' FNL 1100' FWL Sec. 18-T11S-R20W 2140' KB							Clinton Oil Company Haneke #1-V SW NE SW Sec. 18-T11S-R20W 2105' KB	
Formation	Sample top	Datum	Ref	Log tops	Datum	Ref	Log tops	Datum
Anhydrite	1583	+557	+2	1573	+567	+12	1550	+555
B/Anhydrite	1629	+511	-4	1620	+520	+5	1590	+515
Topeka	3183	-1043	+1	3181	-1041	+3	3149	-1044
Heebner	3396	-1256	+1	3393	-1253	+4	3362	-1257
Toronto	3420	-1280	+1	3414	-1274	+7	3386	-1281
Lansing	3436	-1296	+1	3432	-1292	+5	3402	-1297
Stark	3621	-1481	+2	3618	-1478	+5	3588	-1483
BKC	3658	-1518	+3	3657	-1517	+4	3626	-1521
Arbuckle	3744	-1604	Flat	3740	-1600	+4	3709	-1604
RTD	3814						3730	
LTD				3812			3732	



GEOLOGISTS' REPORT

OPERATOR **MURFIN DRILLING COMPANY, INC.**

LEASE **HANEKE INV # 1-18**

LOCATION **2550 FNL & 1100 FWL**

SEC **18** TWPSP **11S** RGE **20W**

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

FIELD **WILDCAT**

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

COMMENCED **2 Nov. 2012** COMPLETED **10 Nov. 2012**

MUD DISPLAYED **2891** MUD TYPE **Chemical**

DRILLING TIME KEPT FROM **3085** TO **3814**

SAMPLES SAVED FROM **3085** TO **3814**

SAMPLES EXAMINED FROM **3085** TO **3814**

GEOLOGICAL SUPERVISION FROM **3203** TO **3814**

GEOLOGIST ON WELL **Paul Gunzelman**

FORMATION **LOG**

NAME **TOP DATUM** **TOP DATUM**

Stone Corral **1580** **+560** **1583** **+557**

Base/Anhydrite **1620** **+520** **1625** **+515**

Topoka **3181** **-1041** **3183** **-1043**

Heebner Shale **3394** **-1254** **3396** **-1256**

Toronto **3415** **-1275** **3420** **-1280**

Lansing **3432** **-1292** **3436** **-1296**

Base/Kansas City **3657** **-1517** **3658** **-1518**

Arbuckle **3738** **-1598** **3744** **-1604**

Total Depth **3812** **-1672** **3814** **-1674**

ELEVATIONS

KB **2140 Ft.**

GL **2135 Ft.**

ALL MEASUREMENTS FROM K.R.

CASINO RECORD

Conductor Name

Surface **8.56" @ 217'**

Production None

ELECTRICAL SURVEYS:

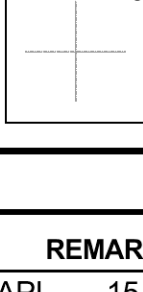
Pioneer Energy Services

Comp. Neutron Density

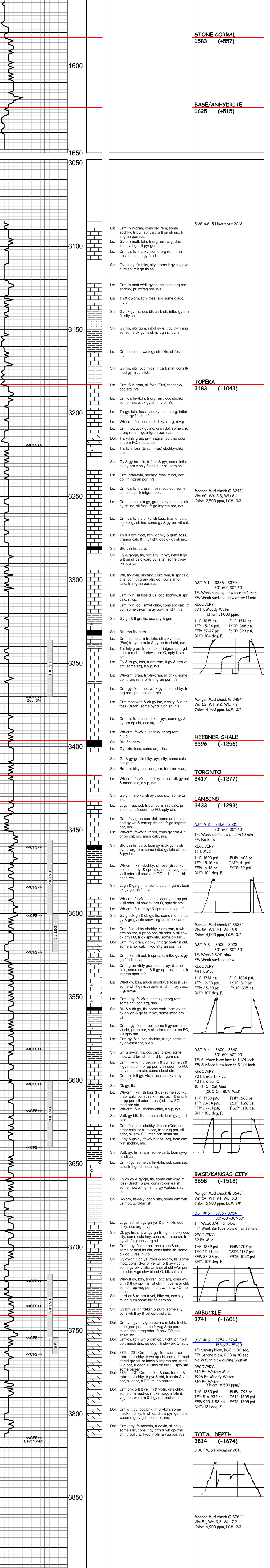
Dual Induction

Micro-resistivity

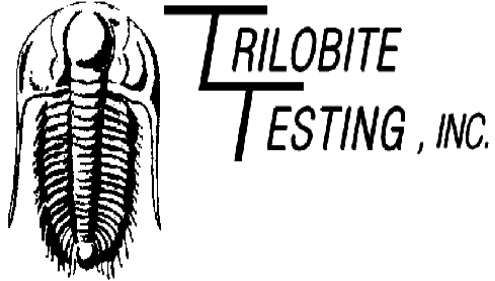
Comp. Sonic



REMARKS	DEPTH	LITHOLOGY	SAMPLE DESCRIPTIONS	REMARKS
API 15-051-26418-00-00				
Drilling Fluids: Morgan Mud, Inc. (Cade Lines, engineer)				
Drill Stem Testing: Tribolite Testing, Inc. (Jim Svaty, tester)				
Gas Trailer: No Gas Trailer				
Reserve Pit Chlorides: 34,000 ppm.				



Operator: MURFIN DRILLING COMPANY, INC.
Lease: HANEKE INV # 1-18
Location: 2550 FNL & 1100 FWL SEC. 18 TWPSP 11S RGE 20W
County: ELLIS State: KANSAS



DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co Inc**

250 N Water Ste 300
Wichita KS 67202-1216

ATTN: Paul Gunzelman

Haneke Inv # 1-18

18 11s 20w Ellis,KS

Start Date: 2012.11.05 @ 20:10:00

End Date: 2012.11.06 @ 02:47:00

Job Ticket #: 48642 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.11.19 @ 14:01:47



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co Inc
 250 N Water Ste 300
 Wichita KS 67202-1216
 ATTN: Paul Gunzelman

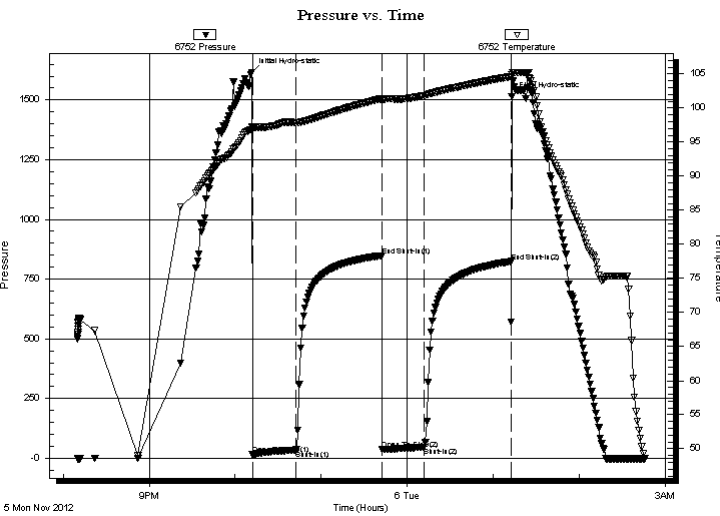
18 11s 20w Ellis,KS
Haneke Inv # 1-18
 Job Ticket: 48642 **DST#: 1**
 Test Start: 2012.11.05 @ 20:10:00

GENERAL INFORMATION:

Formation: **Oread**
 Deviated: No Whipstock: 2140.00 ft (KB)
 Time Tool Opened: 22:12:00
 Time Test Ended: 02:47:00
 Interval: **3336.00 ft (KB) To 3370.00 ft (KB) (TVD)**
 Total Depth: 3370.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Jim Svaty
 Unit No: 41
 Reference Elevations: 2140.00 ft (KB)
 2135.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 6752 Inside
 Press @ RunDepth: 47.23 psig @ 3337.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.11.05 End Date: 2012.11.06 Last Calib.: 2012.11.06
 Start Time: 20:10:01 End Time: 02:46:20 Time On Btm: 2012.11.05 @ 22:11:40
 Time Off Btm: 2012.11.06 @ 01:13:00

TEST COMMENT: 30-IFP- Weak Surface Blow in 15 min. Building to 1" Surging Blow
 60-ISIP- No Blow
 30-FFP- Weak Surface Blow in 11 min.
 60-FSIP- No Blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1615.70	97.25	Initial Hydro-static
1	15.09	97.08	Open To Flow (1)
31	34.23	97.80	Shut-In(1)
91	848.49	101.38	End Shut-In(1)
91	37.10	101.10	Open To Flow (2)
121	47.23	101.83	Shut-In(2)
181	823.81	104.63	End Shut-In(2)
182	1514.62	104.88	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
67.00	MCW 25% m 75% w	0.68

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co Inc
250 N Water Ste 300
Wichita KS 67202-1216
ATTN: Paul Gunzelman

18 11s 20w Ellis,KS
Haneke Inv # 1-18
Job Ticket: 48642 **DST#: 1**
Test Start: 2012.11.05 @ 20:10:00

Tool Information

Drill Pipe:	Length: 3296.00 ft	Diameter: 3.80 inches	Volume: 46.23 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 29.00 ft	Diameter: 2.25 inches	Volume: 0.14 bbl	Weight to Pull Loose: 48000.00 lb
			<u>Total Volume: 46.37 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial 46000.00 lb
Depth to Top Packer:	3336.00 ft			Final 46000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	34.00 ft			
Tool Length:	57.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Shut In Tool	5.00			3318.00	
Hydraulic tool	5.00			3323.00	
Safety Joint	3.00			3326.00	
Packer	5.00			3331.00	23.00 Bottom Of Top Packer
Packer	5.00			3336.00	
Stubb	1.00			3337.00	
Recorder	0.00	6752	Inside	3337.00	
Recorder	0.00	6741	Outside	3337.00	
Perforations	30.00			3367.00	
Bullnose	3.00			3370.00	34.00 Bottom Packers & Anchor
Total Tool Length:	57.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co Inc
250 N Water Ste 300
Wichita KS 67202-1216
ATTN: Paul Gunzelman

18 11s 20w Ellis,KS
Haneke Inv # 1-18
Job Ticket: 48642 **DST#: 1**
Test Start: 2012.11.05 @ 20:10:00

Mud and Cushion Information

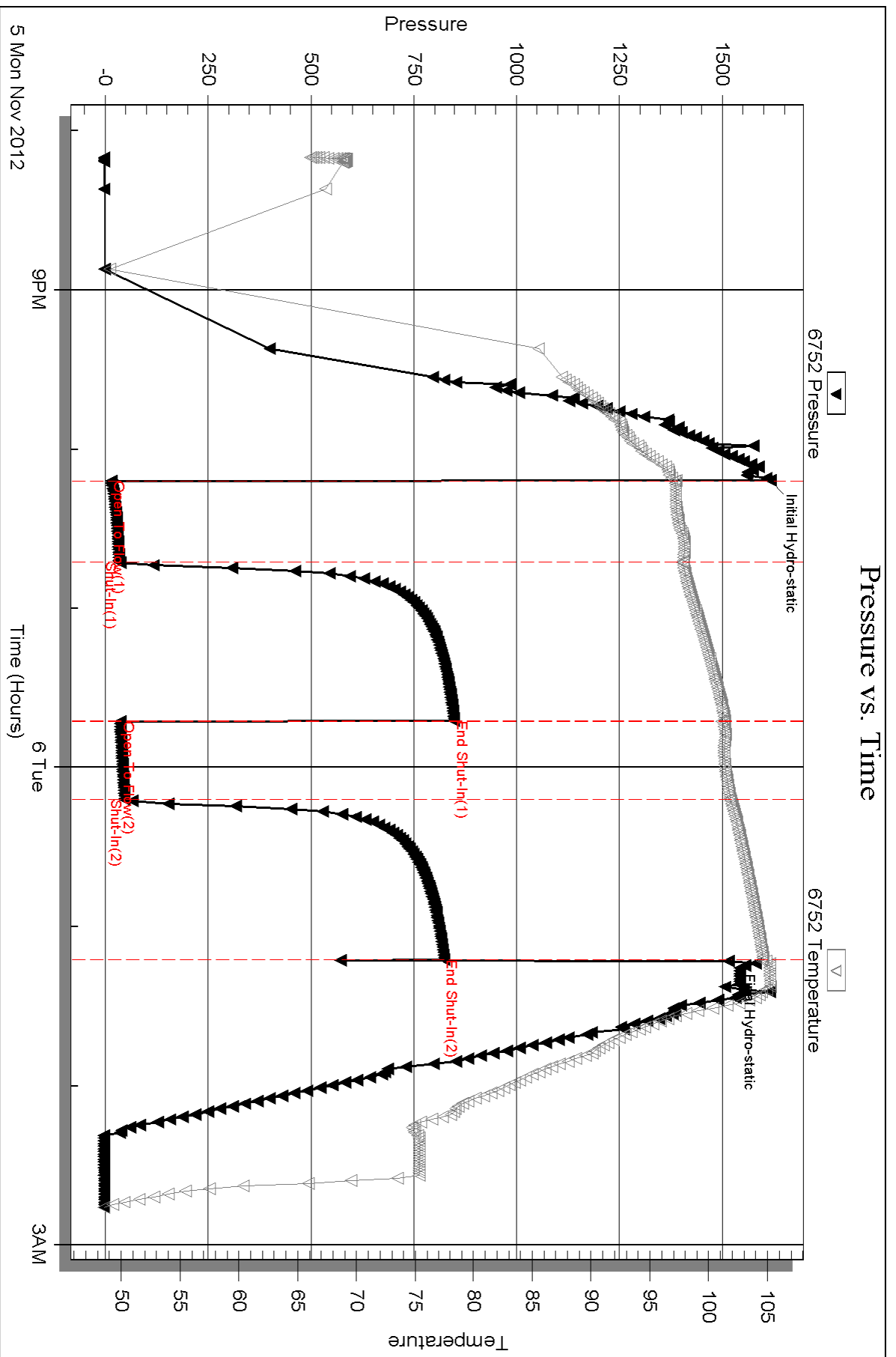
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	31000 ppm
Viscosity: 60.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.34 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 2500.00 ppm			
Filter Cake: inches			

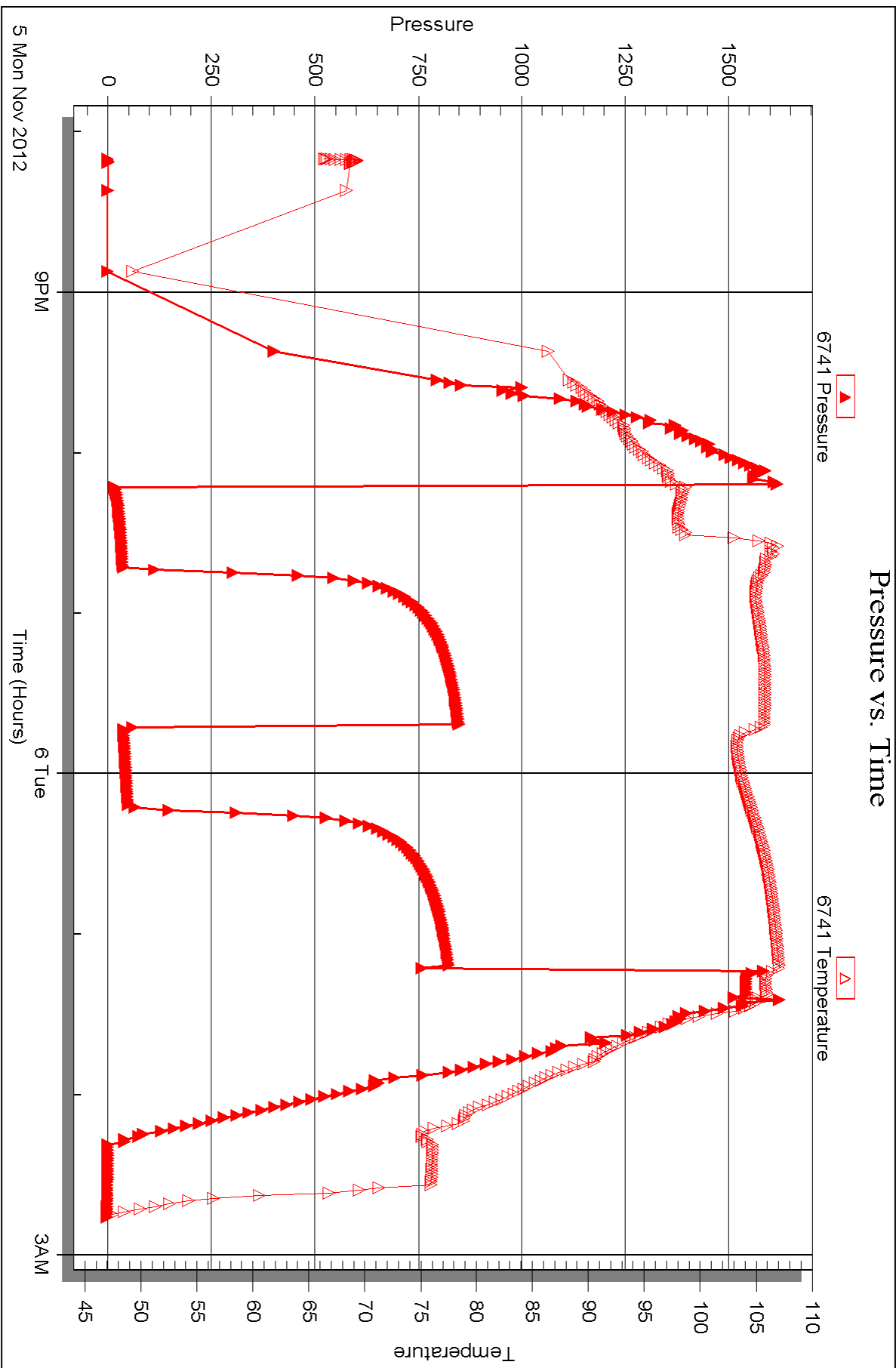
Recovery Information

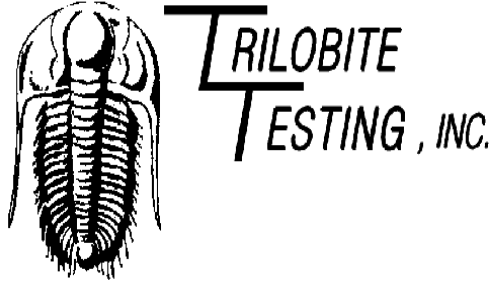
Recovery Table

Length ft	Description	Volume bbl
67.00	MCW 25% <i>m</i> 75% <i>w</i>	0.676

Total Length: 67.00 ft Total Volume: 0.676 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments: .440 @ 44







DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co Inc**

250 N Water Ste 300
Wichita KS 67202-1216

ATTN: Paul Gunzelman

Haneke Inv # 1-18

18 11s 20w Ellis,KS

Start Date: 2012.11.06 @ 15:45:00

End Date: 2012.11.06 @ 22:03:00

Job Ticket #: 48642 DST #: 2

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

Printed: 2012.11.19 @ 14:01:10



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Drilling Co Inc
250 N Water Ste 300
Wichita KS 67202-1216
ATTN: Paul Gunzelman

18 11s 20w Ellis, KS
Haneke Inv # 1-18
Job Ticket: 48642 **DST#: 2**
Test Start: 2012.11.06 @ 15:45:00

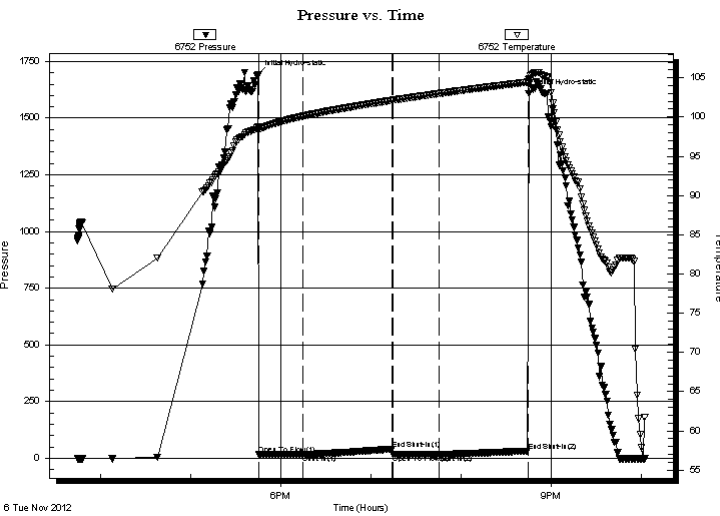
GENERAL INFORMATION:

Formation: **LKC " B-D "**
Deviated: No Whipstock: 2140.00 ft (KB)
Time Tool Opened: 17:45:20
Time Test Ended: 22:03:00
Interval: **3456.00 ft (KB) To 3501.00 ft (KB) (TVD)**
Total Depth: 3501.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole (Reset)
Tester: Jim Svaty
Unit No: 41
Reference Elevations: 2140.00 ft (KB)
2135.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 6752 Inside

Press @ Run Depth: 16.68 psig @ 3457.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2012.11.06 End Date: 2012.11.06 Last Calib.: 2012.11.06
Start Time: 15:45:01 End Time: 22:02:20 Time On Btm: 2012.11.06 @ 17:45:00
Time Off Btm: 2012.11.06 @ 20:45:20

TEST COMMENT: 30-IFP- Weak Surface Blow Died in 10 min.
60-ISIP- No Blow
30-FFP- No Blow
60-FSIP- No Blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1690.68	98.69	Initial Hydro-static
1	15.83	98.48	Open To Flow (1)
30	16.22	100.12	Shut-In(1)
89	41.13	102.12	End Shut-In(1)
90	16.19	102.14	Open To Flow (2)
120	16.68	102.98	Shut-In(2)
180	32.24	104.45	End Shut-In(2)
181	1608.22	104.82	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1.00	MUD 100%	0.00

* 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 Co Inc
250 N Water Ste 300
Wichita KS 67202-1216
ATTN: Paul Gunzelman

18 11s 20w Ellis,KS
Haneke Inv # 1-18
Job Ticket: 48642 **DST#: 2**
Test Start: 2012.11.06 @ 15:45:00

Tool Information

Drill Pipe:	Length: 3424.00 ft	Diameter: 3.80 inches	Volume: 48.03 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 29.00 ft	Diameter: 2.25 inches	Volume: 0.14 bbl	Weight to Pull Loose: 50000.00 lb
			<u>Total Volume: 48.17 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	3456.00 ft			Final 48000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	45.00 ft			
Tool Length:	68.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Shut In Tool	5.00			3438.00	
Hydraulic tool	5.00			3443.00	
Safety Joint	3.00			3446.00	
Packer	5.00			3451.00	23.00 Bottom Of Top Packer
Packer	5.00			3456.00	
Stubb	1.00			3457.00	
Recorder	0.00	6752	Inside	3457.00	
Recorder	0.00	6741	Outside	3457.00	
Perforations	7.00			3464.00	
Change Over Sub	1.00			3465.00	
Blank Spacing	32.00			3497.00	
Change Over Sub	1.00			3498.00	
Bullnose	3.00			3501.00	45.00 Bottom Packers & Anchor

Total Tool Length: 68.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co Inc
250 N Water Ste 300
Wichita KS 67202-1216
ATTN: Paul Gunzelman

18 11s 20w Ellis,KS
Haneke Inv # 1-18
Job Ticket: 48642 **DST#: 2**
Test Start: 2012.11.06 @ 15:45:00

Mud and Cushion Information

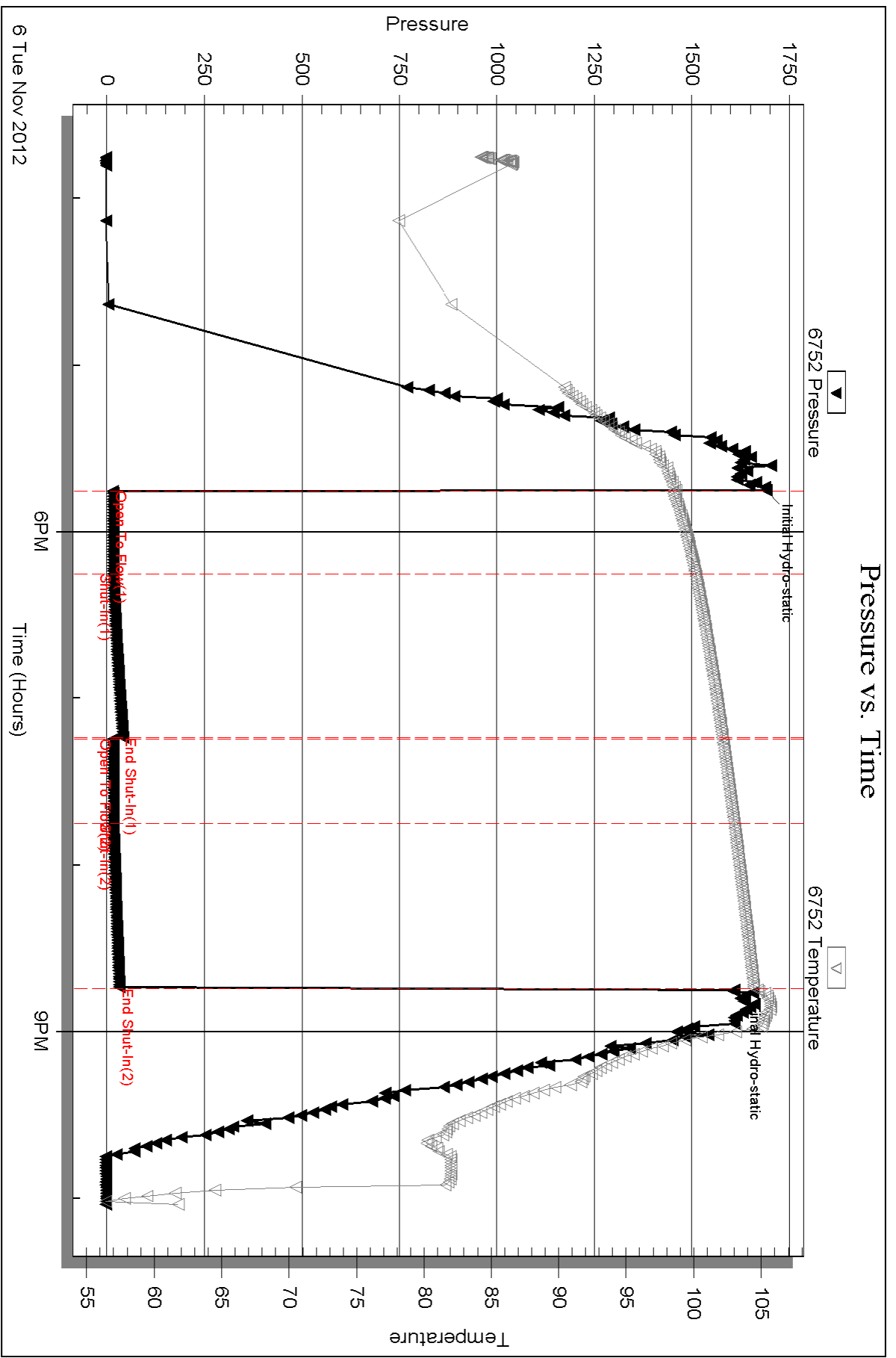
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 52.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.14 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 4700.00 ppm			
Filter Cake: inches			

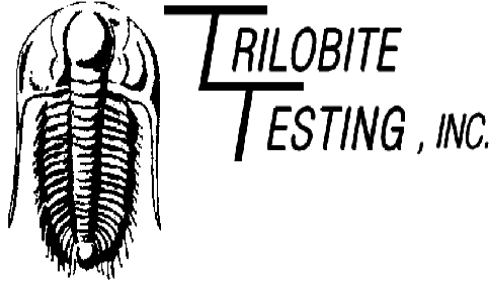
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1.00	MUD 100%	0.005

Total Length: 1.00 ft Total Volume: 0.005 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co Inc**

250 N Water Ste 300
Wichita KS 67202-1216

ATTN: Paul Gunzelman

Haneke Inv # 1-18

18 11s 20w Ellis,KS

Start Date: 2012.11.07 @ 03:51:00

End Date: 2012.11.07 @ 10:22:00

Job Ticket #: 48644 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.11.19 @ 14:00:31



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Drilling Co Inc
250 N Water Ste 300
Wichita KS 67202-1216
ATTN: Paul Gunzelman

18 11s 20w Ellis,KS
Haneke Inv # 1-18
Job Ticket: 48644 **DST#: 3**
Test Start: 2012.11.07 @ 03:51:00

GENERAL INFORMATION:

Formation: **LKC " E & F "**
Deviated: No Whipstock: 2140.00 ft (KB)
Time Tool Opened: 06:05:00
Time Test Ended: 10:22:00
Interval: **3500.00 ft (KB) To 3523.00 ft (KB) (TVD)**
Total Depth: 3523.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole (Reset)
Tester: Jim Svaty
Unit No: 41
Reference Elevations: 2140.00 ft (KB)
2135.00 ft (CF)
KB to GR/CF: 5.00 ft

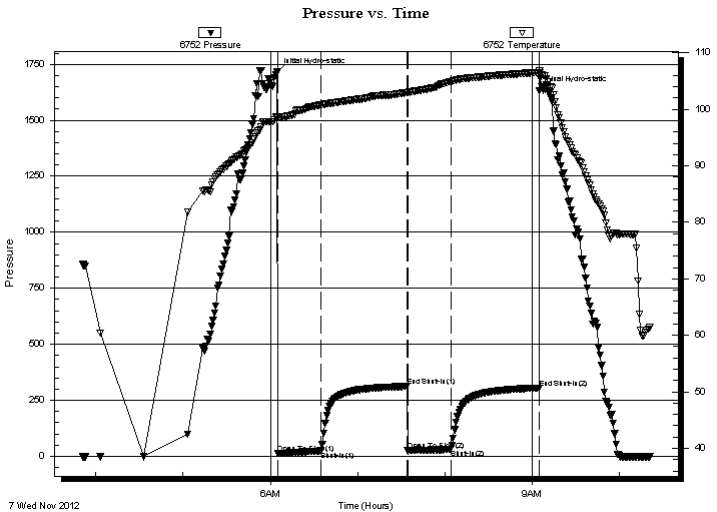
Serial #: 6752

Inside

Press @ RunDepth: 30.76 psig @ 3501.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2012.11.07 End Date: 2012.11.07 Last Calib.: 2012.11.07
Start Time: 03:51:01 End Time: 10:21:20 Time On Btm: 2012.11.07 @ 06:04:40
Time Off Btm: 2012.11.07 @ 09:05:00

TEST COMMENT: 30-IFP-Surface Blow Building to 1 3/4"
60-ISIP- No Blow
30-FFP- Surface Blow in 4 min.
60-FSIP- No Blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1714.49	98.66	Initial Hydro-static
1	12.06	98.49	Open To Flow (1)
30	23.82	100.80	Shut-In(1)
89	312.36	102.98	End Shut-In(1)
90	25.11	102.95	Open To Flow (2)
120	30.76	104.93	Shut-In(2)
180	305.45	106.57	End Shut-In(2)
181	1634.04	106.90	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
44.00	MUD 100%	0.35

* 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 Co Inc
250 N Water Ste 300
Wichita KS 67202-1216
ATTN: Paul Gunzelman

18 11s 20w Ellis,KS
Haneke Inv # 1-18
Job Ticket: 48644 **DST#: 3**
Test Start: 2012.11.07 @ 03:51:00

Tool Information

Drill Pipe:	Length: 3455.00 ft	Diameter: 3.80 inches	Volume: 48.46 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 29.00 ft	Diameter: 2.25 inches	Volume: 0.14 bbl	Weight to Pull Loose: 50000.00 lb
			<u>Total Volume: 48.60 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	7.00 ft			String Weight: Initial 46000.00 lb
Depth to Top Packer:	3500.00 ft			Final 46000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	23.00 ft			
Tool Length:	46.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

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

Shut In Tool	5.00			3482.00	
Hydraulic tool	5.00			3487.00	
Safety Joint	3.00			3490.00	
Packer	5.00			3495.00	23.00 Bottom Of Top Packer
Packer	5.00			3500.00	
Stubb	1.00			3501.00	
Recorder	0.00	6752	Inside	3501.00	
Recorder	0.00	8322	Outside	3501.00	
Perforations	19.00			3520.00	
Bullnose	3.00			3523.00	23.00 Bottom Packers & Anchor
Total Tool Length:	46.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co Inc
250 N Water Ste 300
Wichita KS 67202-1216
ATTN: Paul Gunzelman

18 11s 20w Ellis,KS
Haneke Inv # 1-18
Job Ticket: 48644 **DST#: 3**
Test Start: 2012.11.07 @ 03:51:00

Mud and Cushion Information

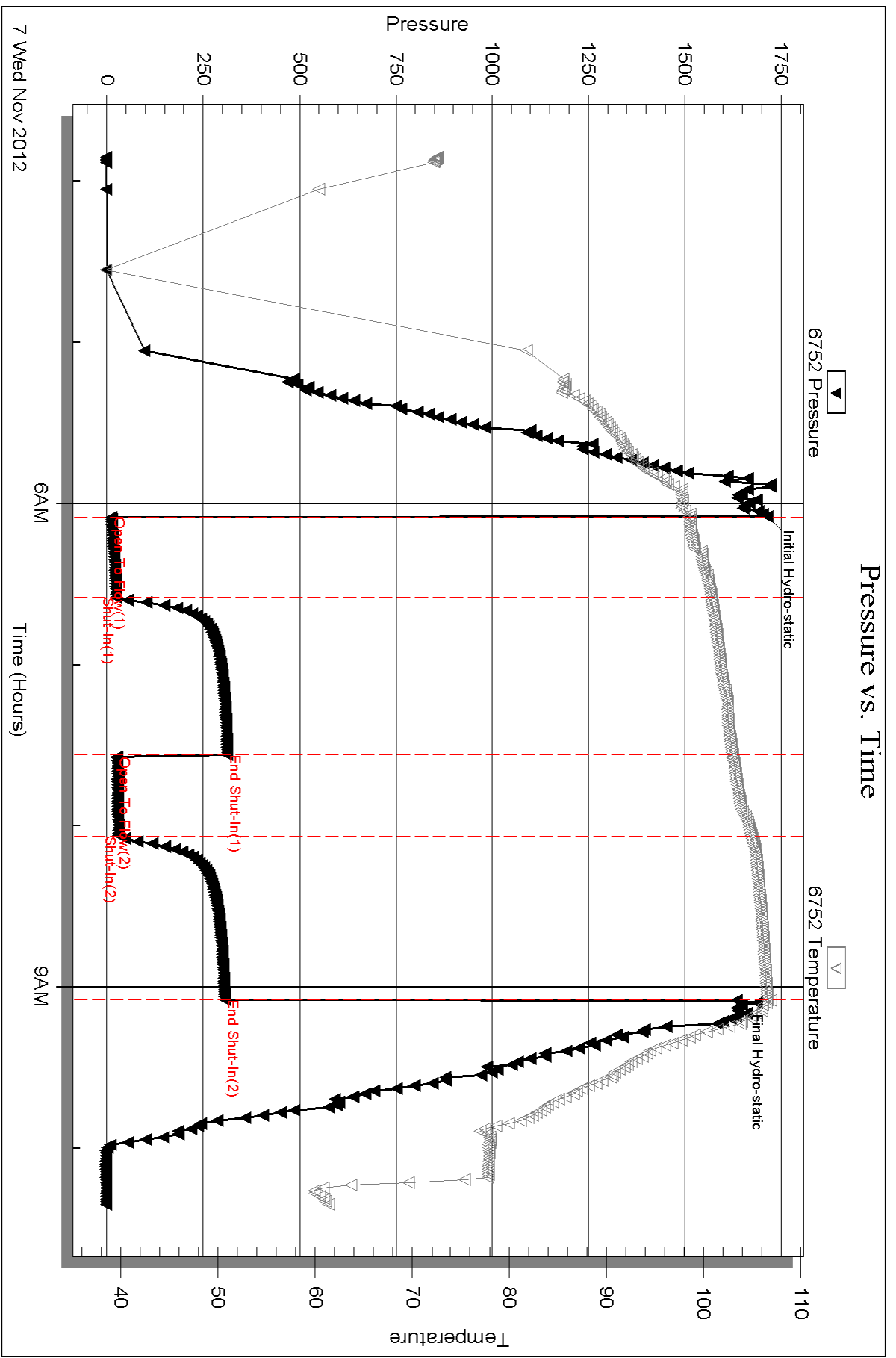
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 52.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.15 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 4700.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
44.00	MUD 100%	0.353

Total Length: 44.00 ft Total Volume: 0.353 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

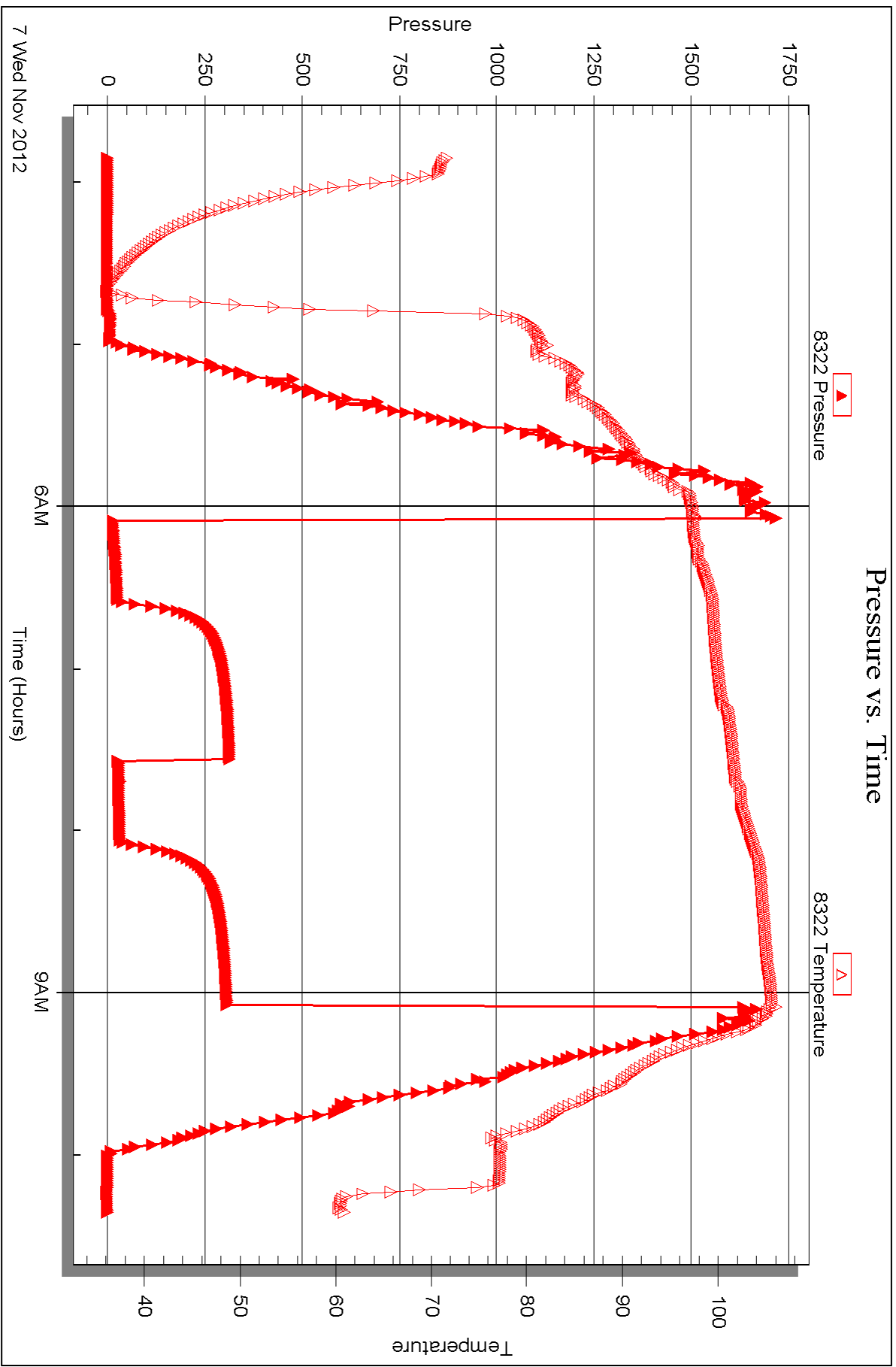


Serial #: 8322

Outside Murfin Drilling Co Inc

Haneke Inv # 1-18

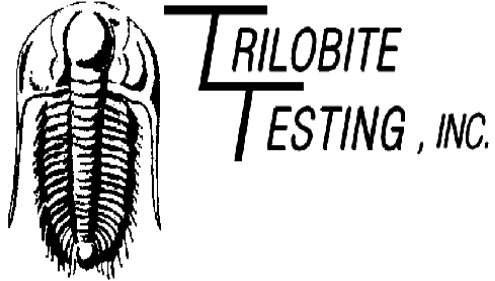
DST Test Number: 3



Triobite Testing, Inc

Ref. No: 48644

Printed: 2012.11.19 @ 14:00:36



DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co Inc**

250 N Water Ste 300
Wichita KS 67202-1216

ATTN: Paul Gunzelman

Haneke Inv # 1-18

18 11s 20w Ellis,KS

Start Date: 2012.11.07 @ 22:50:00

End Date: 2012.11.08 @ 06:51:00

Job Ticket #: 48645 DST #: 4

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

Printed: 2012.11.19 @ 13:59:45



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Drilling Co Inc
250 N Water Ste 300
Wichita KS 67202-1216
ATTN: Paul Gunzelman

18 11s 20w Ellis,KS
Haneke Inv # 1-18
Job Ticket: 48645 **DST#: 4**
Test Start: 2012.11.07 @ 22:50:00

GENERAL INFORMATION:

Formation: **LKC " J & K "**
Deviated: No Whipstock: 2140.00 ft (KB)
Time Tool Opened: 01:07:20
Time Test Ended: 06:51:00
Interval: **3600.00 ft (KB) To 3640.00 ft (KB) (TVD)**
Total Depth: 3640.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole (Reset)
Tester: Jim Svaty
Unit No: 41
Reference Elevations: 2140.00 ft (KB)
2135.00 ft (CF)
KB to GR/CF: 5.00 ft

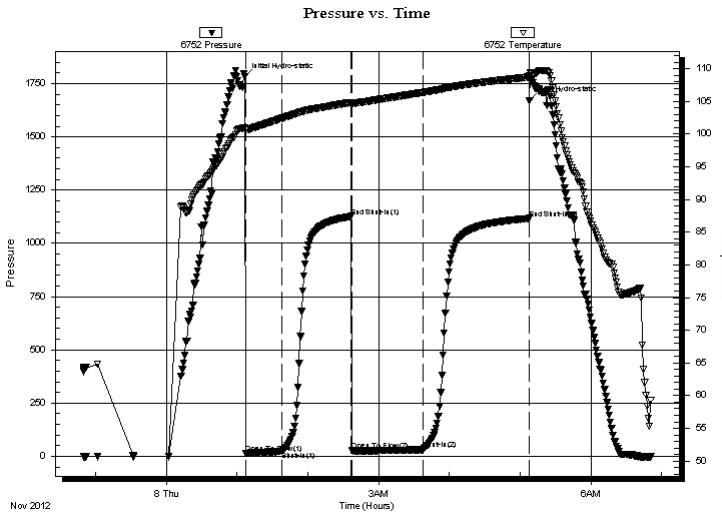
Serial #: 6752

Inside

Press @ Run Depth: 31.73 psig @ 3601.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2012.11.07 End Date: 2012.11.08 Last Calib.: 2012.11.08
Start Time: 22:50:01 End Time: 06:51:00 Time On Btm: 2012.11.08 @ 01:07:00
Time Off Btm: 2012.11.08 @ 05:08:00

TEST COMMENT: 30-IFP- Surface Blow Building to 1 1/4"
60-ISIP- No Blow
60-FFP- Surface Blow Building to 3 1/4"
90-FSIP- No Blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1780.71	100.97	Initial Hydro-static
1	13.59	100.67	Open To Flow (1)
31	24.24	102.36	Shut-In(1)
90	1126.46	104.82	End Shut-In(1)
91	27.22	104.67	Open To Flow (2)
151	31.73	106.33	Shut-In(2)
241	1116.86	108.70	End Shut-In(2)
241	1668.88	108.85	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	OCM 20%o 80%m	0.05
40.00	CO 100%	0.39
0.00	70 GIP	0.00

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 Co Inc
250 N Water Ste 300
Wichita KS 67202-1216
ATTN: Paul Gunzelman

18 11s 20w Ellis,KS
Haneke Inv # 1-18
Job Ticket: 48645 **DST#: 4**
Test Start: 2012.11.07 @ 22:50:00

Tool Information

Drill Pipe:	Length: 3582.00 ft	Diameter: 3.80 inches	Volume: 50.25 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 29.00 ft	Diameter: 2.25 inches	Volume: 0.14 bbl	Weight to Pull Loose: 52000.00 lb
			<u>Total Volume: 50.39 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	34.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	3600.00 ft			Final 48000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	40.00 ft			
Tool Length:	63.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Shut In Tool	5.00			3582.00	
Hydraulic tool	5.00			3587.00	
Safety Joint	3.00			3590.00	
Packer	5.00			3595.00	23.00 Bottom Of Top Packer
Packer	5.00			3600.00	
Stubb	1.00			3601.00	
Recorder	0.00	6752	Inside	3601.00	
Recorder	0.00	8322	Outside	3601.00	
Perforations	2.00			3603.00	
Change Over Sub	1.00			3604.00	
Blank Spacing	32.00			3636.00	
Change Over Sub	1.00			3637.00	
Bullnose	3.00			3640.00	40.00 Bottom Packers & Anchor

Total Tool Length: 63.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co Inc
250 N Water Ste 300
Wichita KS 67202-1216
ATTN: Paul Gunzelman

18 11s 20w Ellis,KS
Haneke Inv # 1-18
Job Ticket: 48645 **DST#: 4**
Test Start: 2012.11.07 @ 22:50:00

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	30 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 56.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.77 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 4500.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

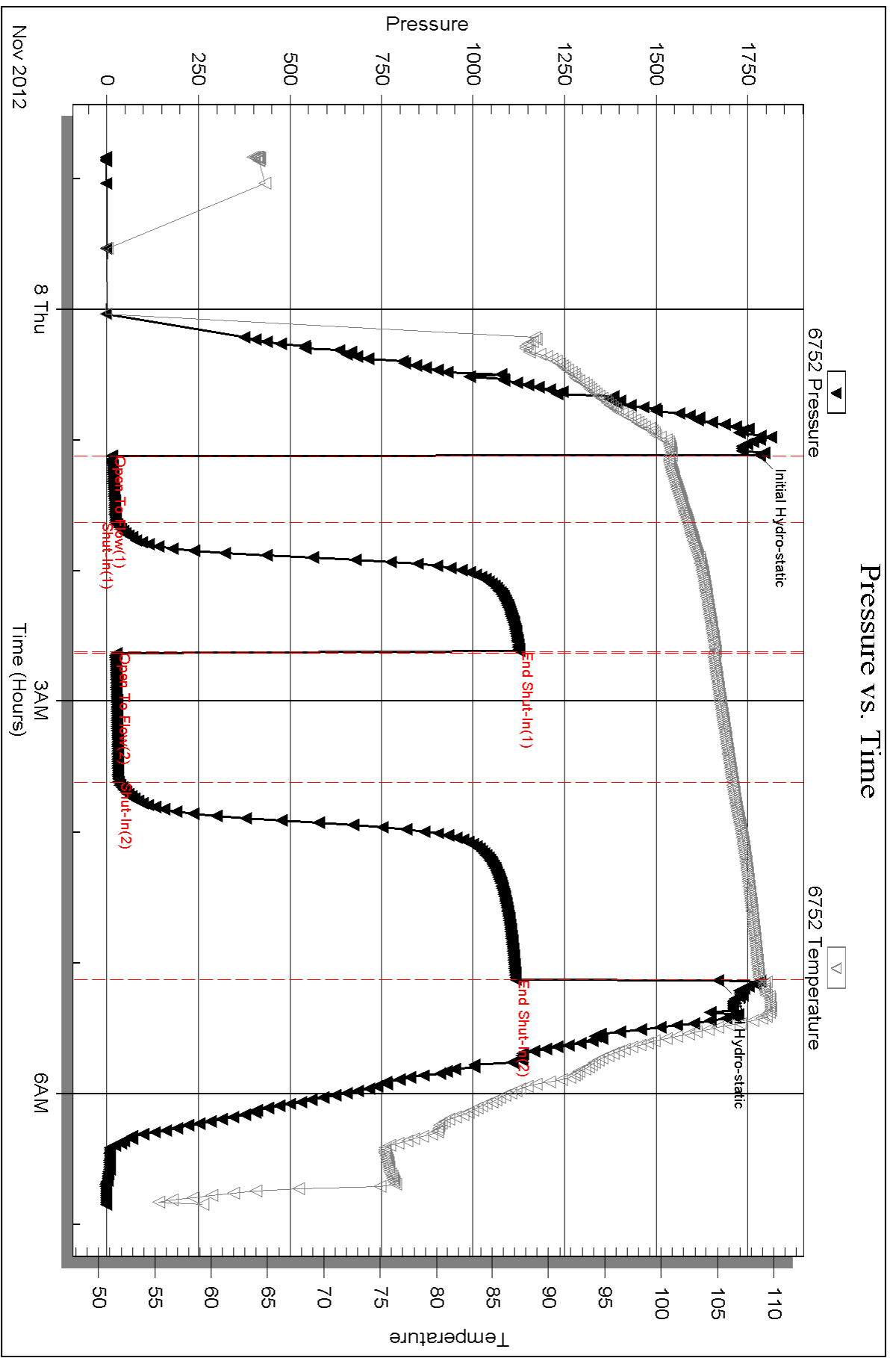
Length ft	Description	Volume bbl
10.00	OCM 20%o 80%m	0.049
40.00	CO 100%	0.388
0.00	70 GIP	0.000

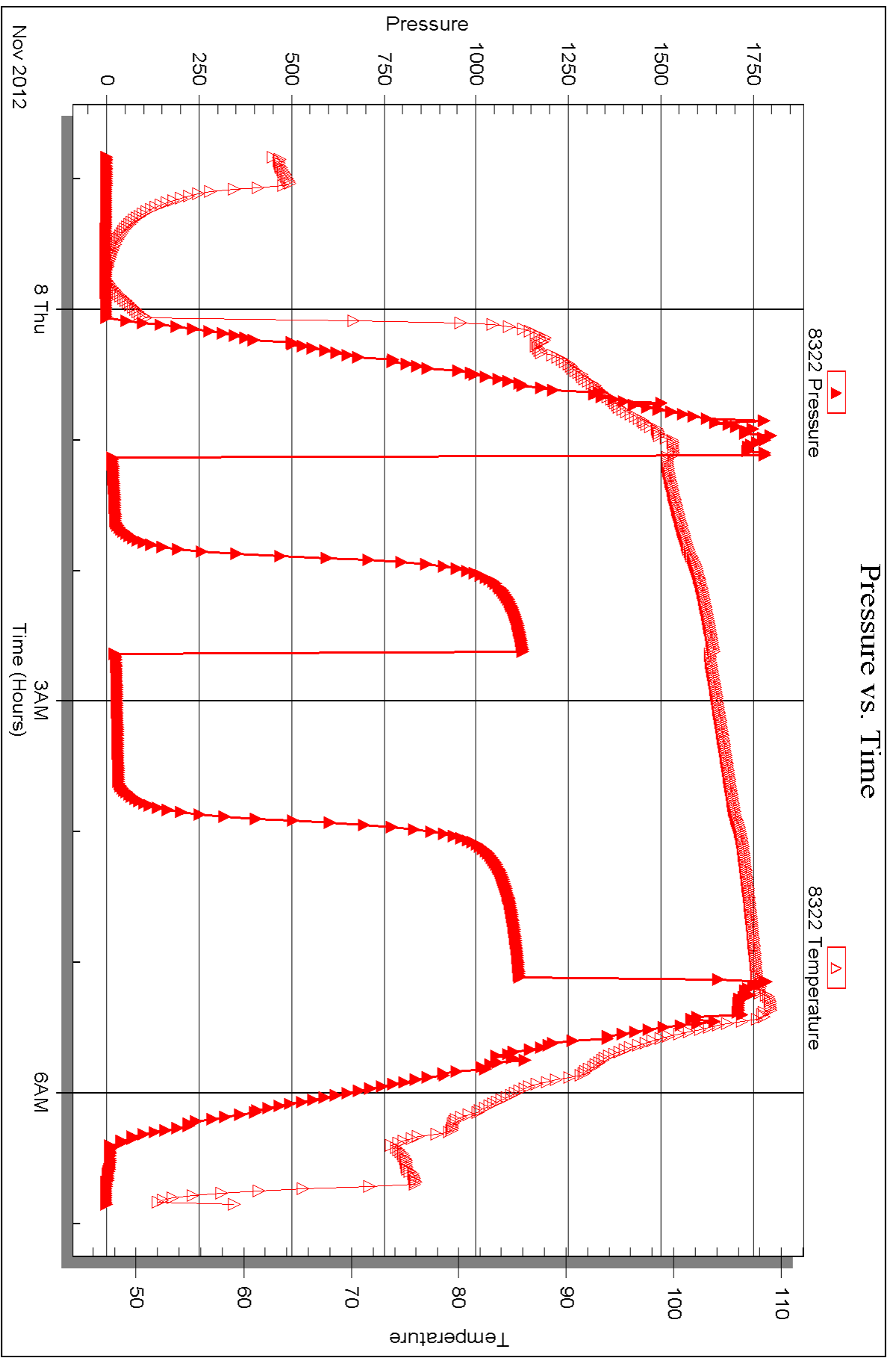
Total Length: 50.00 ft Total Volume: 0.437 bbl

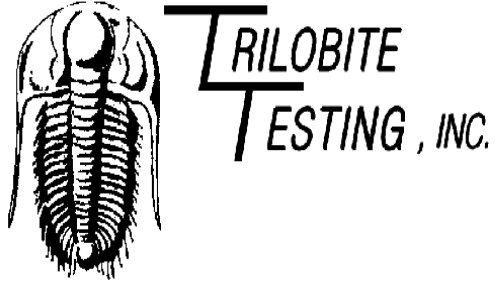
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments:







DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co Inc**

250 N Water Ste 300
Wichita KS 67202-1216

ATTN: Paul Gunzelman

Haneke Inv # 1-18

18 11s 20w Ellis,KS

Start Date: 2012.11.08 @ 17:36:00

End Date: 2012.11.08 @ 23:42:00

Job Ticket #: 48646 DST #: 5

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.11.19 @ 13:58:58



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co Inc
 250 N Water Ste 300
 Wichita KS 67202-1216
 ATTN: Paul Gunzelman

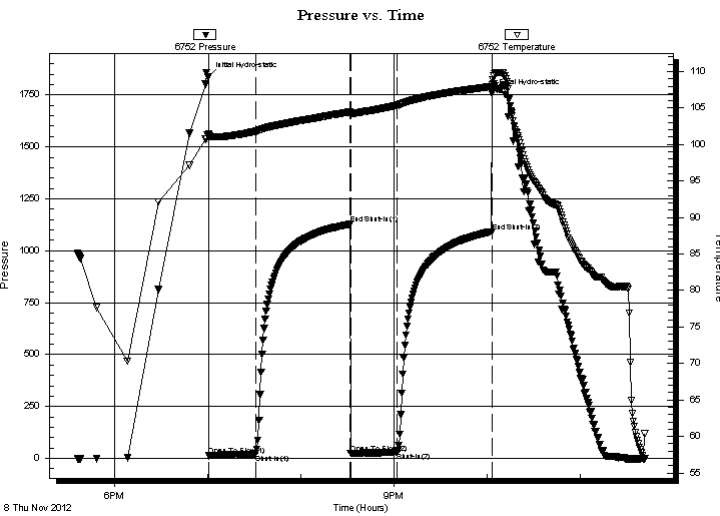
18 11s 20w Ellis, KS
Haneke Inv # 1-18
 Job Ticket: 48646 **DST#: 5**
 Test Start: 2012.11.08 @ 17:36:00

GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: 2140.00 ft (KB)
 Time Tool Opened: 19:00:40
 Time Test Ended: 23:42:00
 Interval: **3716.00 ft (KB) To 3754.00 ft (KB) (TVD)**
 Total Depth: 3754.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Jim Svaty
 Unit No: 41
 Reference Elevations: 2140.00 ft (KB)
 2135.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 6752 Inside
 Press @ Run Depth: 28.36 psig @ 3718.50 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.11.08 End Date: 2012.11.08 Last Calib.: 2012.11.08
 Start Time: 17:36:01 End Time: 23:41:40 Time On Btm: 2012.11.08 @ 19:00:20
 Time Off Btm: 2012.11.08 @ 22:03:20

TEST COMMENT: 30-IFP- Surface Blow Building to 3/4"
 60-ISIP- No Blow
 30-FFP-Weak Surface Blow in 12 min.
 60-FSIP- No Blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1839.83	101.40	Initial Hydro-static
1	12.64	101.13	Open To Flow (1)
31	21.32	101.79	Shut-In(1)
92	1127.46	104.47	End Shut-In(1)
92	23.24	104.29	Open To Flow (2)
122	28.36	105.35	Shut-In(2)
183	1092.03	107.95	End Shut-In(2)
183	1757.58	108.14	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
32.00	MUD 100%	0.18

* 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 Co Inc
250 N Water Ste 300
Wichita KS 67202-1216
ATTN: Paul Gunzelman

18 11s 20w Ellis,KS
Haneke Inv # 1-18
Job Ticket: 48646 **DST#: 5**
Test Start: 2012.11.08 @ 17:36:00

Tool Information

Drill Pipe:	Length: 3678.00 ft	Diameter: 3.80 inches	Volume: 51.59 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 29.00 ft	Diameter: 2.25 inches	Volume: 0.14 bbl	Weight to Pull Loose: 50000.00 lb
			<u>Total Volume: 51.73 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	14.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3716.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	38.00 ft			
Tool Length:	61.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

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

Shut In Tool	5.00			3698.00	
Hydraulic tool	5.00			3703.00	
Safety Joint	3.00			3706.00	
Packer	5.00			3711.00	23.00 Bottom Of Top Packer
Packer	5.00			3716.00	
Stubb	1.00			3717.00	
Perforations	1.00			3718.00	
Change Over Sub	0.50			3718.50	
Recorder	0.00	6752	Inside	3718.50	
Recorder	0.00	8322	Outside	3718.50	
Blank Spacing	32.00			3750.50	
Change Over Sub	0.50			3751.00	
Bullnose	3.00			3754.00	38.00 Bottom Packers & Anchor

Total Tool Length: 61.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co Inc
250 N Water Ste 300
Wichita KS 67202-1216
ATTN: Paul Gunzelman

18 11s 20w Ellis,KS
Haneke Inv # 1-18
Job Ticket: 48646 **DST#: 5**
Test Start: 2012.11.08 @ 17:36:00

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: 54.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.78 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 6900.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
32.00	MUD 100%	0.185

Total Length: 32.00 ft Total Volume: 0.185 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

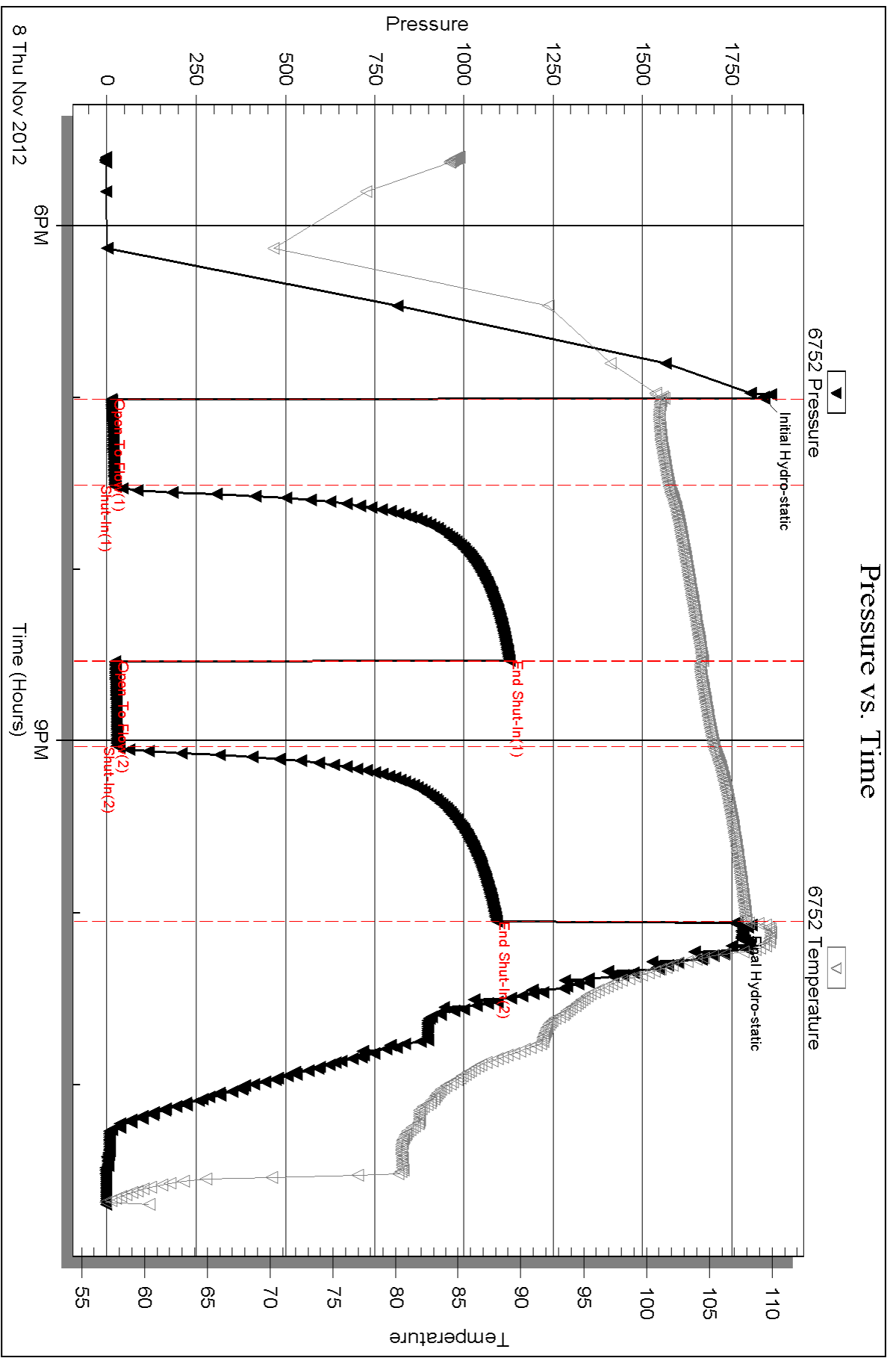
Serial #: 6752

Inside

Murfin Drilling Co Inc

Haneke Inv # 1-18

DST Test Number: 5



Triobite Testing, Inc

Ref. No: 48646

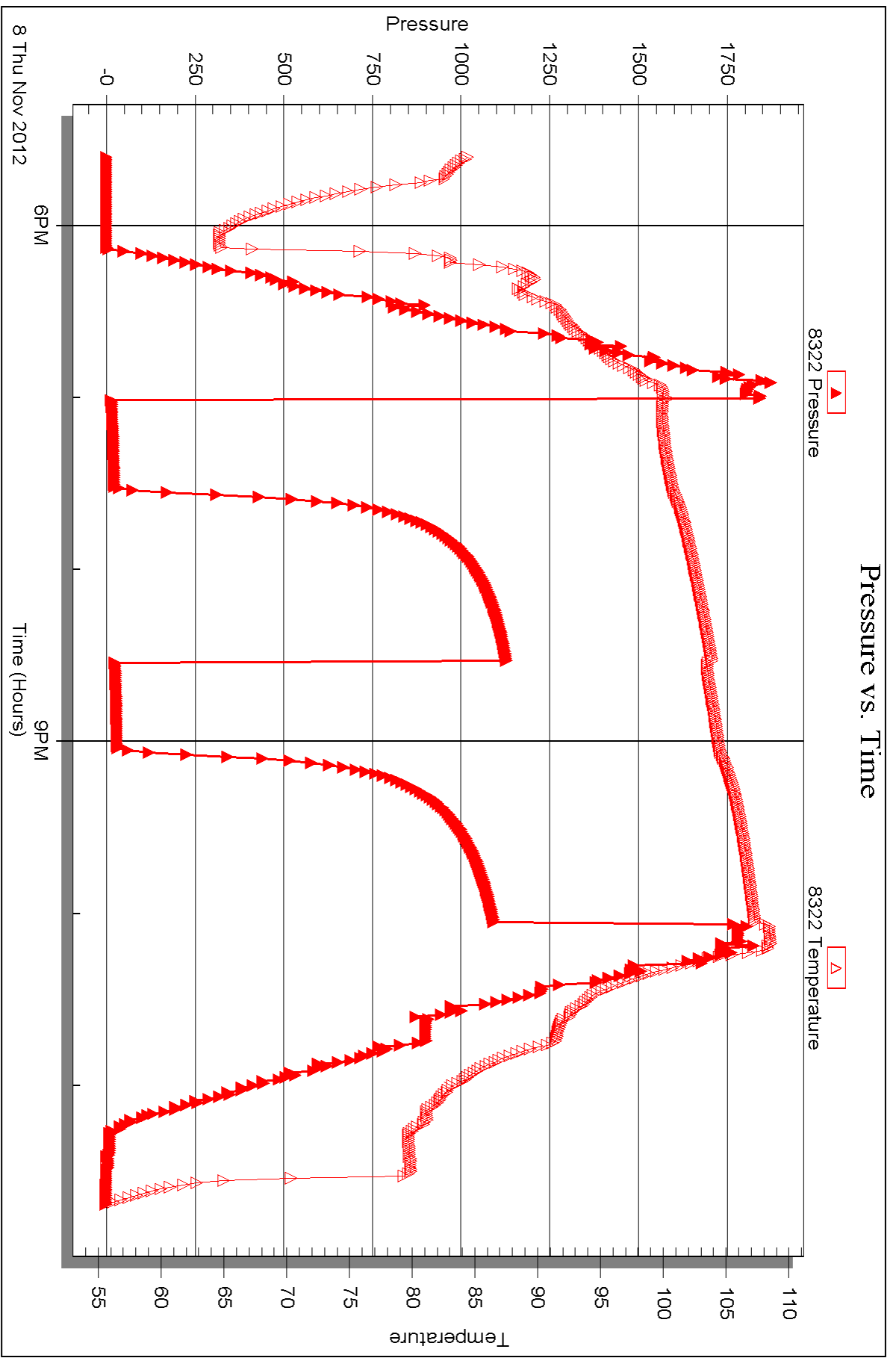
Printed: 2012.11.19 @ 13:59:03

Serial #: 8322

Outside Murfin Drilling Co Inc

Haneke Inv # 1-18

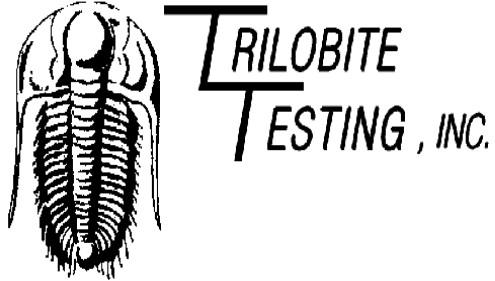
DST Test Number: 5



Triobite Testing, Inc

Ref. No: 48646

Printed: 2012.11.19 @ 13:59:04



DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co Inc**

250 N Water Ste 300
Wichita KS 67202-1216

ATTN: Paul Gunzelman

Haneke Inv # 1-18

18 11s 20w Ellis,KS

Start Date: 2012.11.09 @ 04:54:00

End Date: 2012.11.09 @ 11:44:00

Job Ticket #: 48647 DST #: 6

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.11.19 @ 13:57:06



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Drilling Co Inc
250 N Water Ste 300
Wichita KS 67202-1216
ATTN: Paul Gunzelman

18 11s 20w Ellis,KS
Haneke Inv # 1-18
Job Ticket: 48647 **DST#: 6**
Test Start: 2012.11.09 @ 04:54:00

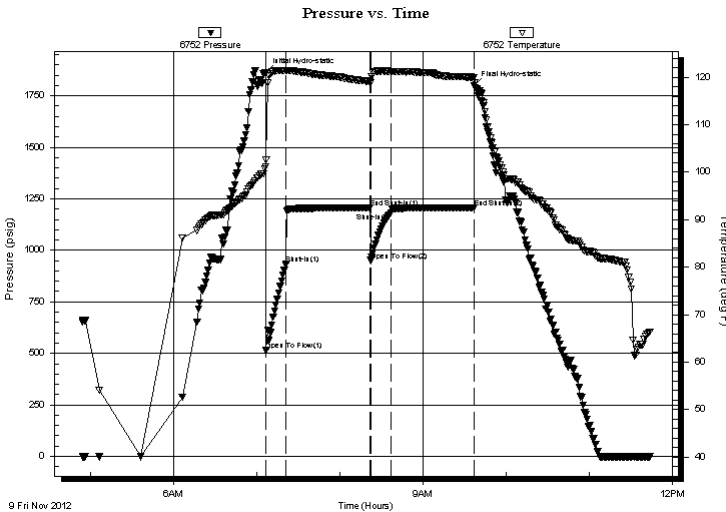
GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: 2140.00 ft (KB)
Time Tool Opened: 07:06:40
Time Test Ended: 11:44:00
Interval: **3754.00 ft (KB) To 3764.00 ft (KB) (TVD)**
Total Depth: 3764.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole (Reset)
Tester: Jim Svaty
Unit No: 41
Reference Elevations: 2140.00 ft (KB)
2135.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 6752 Inside
Press @ Run Depth: 1182.94 psig @ 3755.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2012.11.09 End Date: 2012.11.09 Last Calib.: 2012.11.09
Start Time: 04:54:01 End Time: 11:44:00 Time On Btm: 2012.11.09 @ 07:06:20
Time Off Btm: 2012.11.09 @ 09:37:00

TEST COMMENT: 15-IFP- BOB in 30 sec.
60-ISIP- No Blow
15-FFP- BOB in 30 sec.
60-FSIP- No Blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1860.75	101.09	Initial Hydro-static
1	516.07	102.61	Open To Flow (1)
15	934.95	121.42	Shut-In(1)
76	1205.97	119.15	End Shut-In(1)
76	950.90	118.93	Open To Flow (2)
91	1182.94	121.22	Shut-In(2)
151	1205.99	120.00	End Shut-In(2)
151	1798.53	119.90	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
310.00	WATER 100%	4.08
1996.00	MCW 7%w 93%w	28.00
315.00	WCM 35%w 65%w	4.42

* 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 Co Inc
250 N Water Ste 300
Wichita KS 67202-1216
ATTN: Paul Gunzelman

18 11s 20w Ellis,KS
Haneke Inv # 1-18
Job Ticket: 48647 **DST#: 6**
Test Start: 2012.11.09 @ 04:54:00

Tool Information

Drill Pipe:	Length: 3708.00 ft	Diameter: 3.80 inches	Volume: 52.01 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 29.00 ft	Diameter: 2.25 inches	Volume: 0.14 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 52.15 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial 49000.00 lb
Depth to Top Packer:	3754.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	10.00 ft			
Tool Length:	33.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3736.00	
Hydraulic tool	5.00			3741.00	
Safety Joint	3.00			3744.00	
Packer	5.00			3749.00	23.00 Bottom Of Top Packer
Packer	5.00			3754.00	
Stubb	1.00			3755.00	
Recorder	0.00	6752	Inside	3755.00	
Recorder	0.00	8322	Outside	3755.00	
Perforations	6.00			3761.00	
Bullnose	3.00			3764.00	10.00 Bottom Packers & Anchor
Total Tool Length:	33.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co Inc
250 N Water Ste 300
Wichita KS 67202-1216
ATTN: Paul Gunzelman

18 11s 20w Ellis,KS
Haneke Inv # 1-18
Job Ticket: 48647 **DST#: 6**
Test Start: 2012.11.09 @ 04:54:00

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:	25000 ppm
Viscosity: 54.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.79 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 6900.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
310.00	WATER 100%	4.084
1996.00	MCW 7% _m 93% _w	27.999
315.00	WCM 35% _w 65% _m	4.419

Total Length: 2621.00 ft Total Volume: 36.502 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments: .342 @ 55

Serial #: 6752

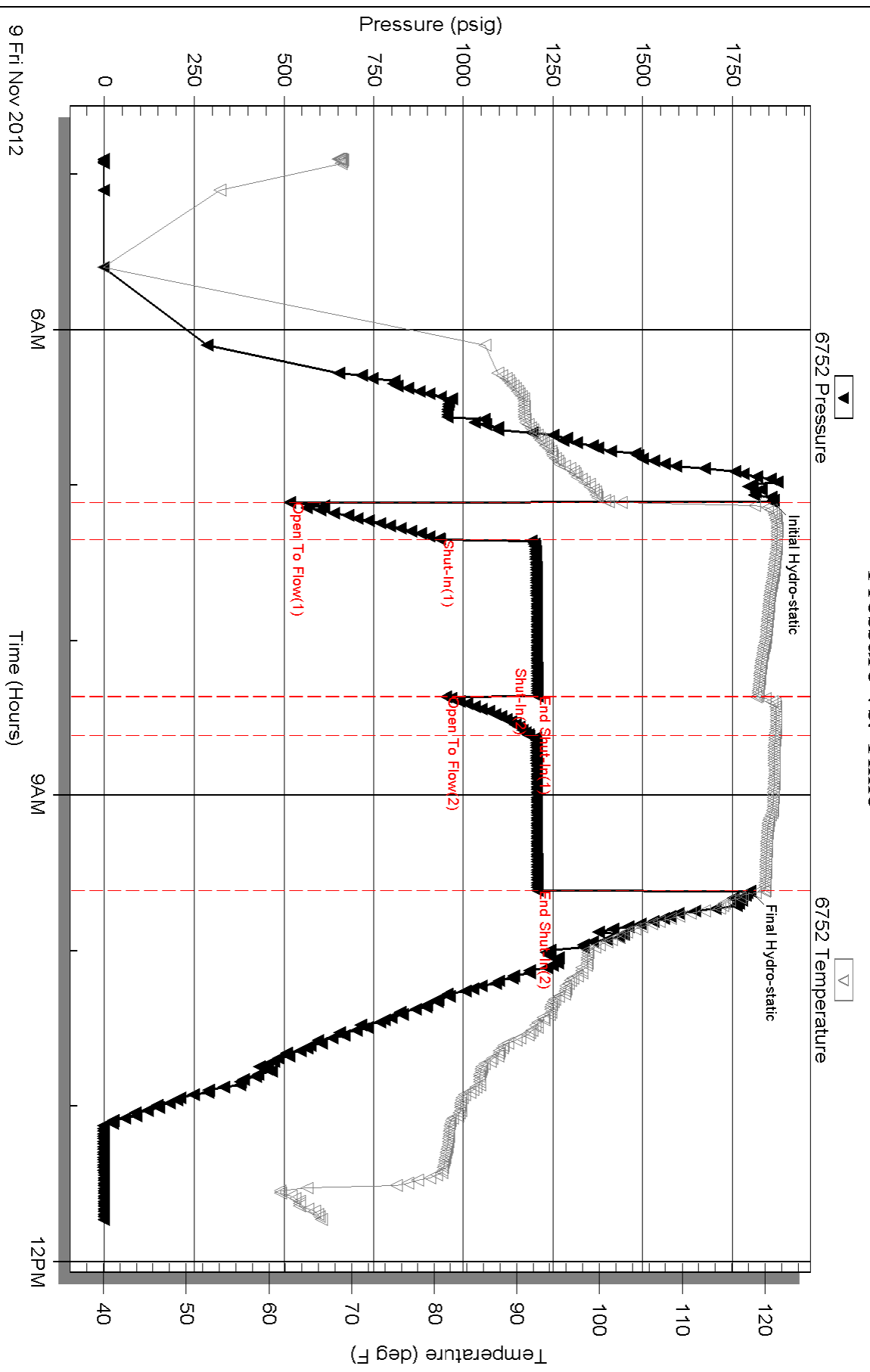
Inside

Murfin Drilling Co Inc

Haneke Inv #1-18

DST Test Number: 6

Pressure vs. Time

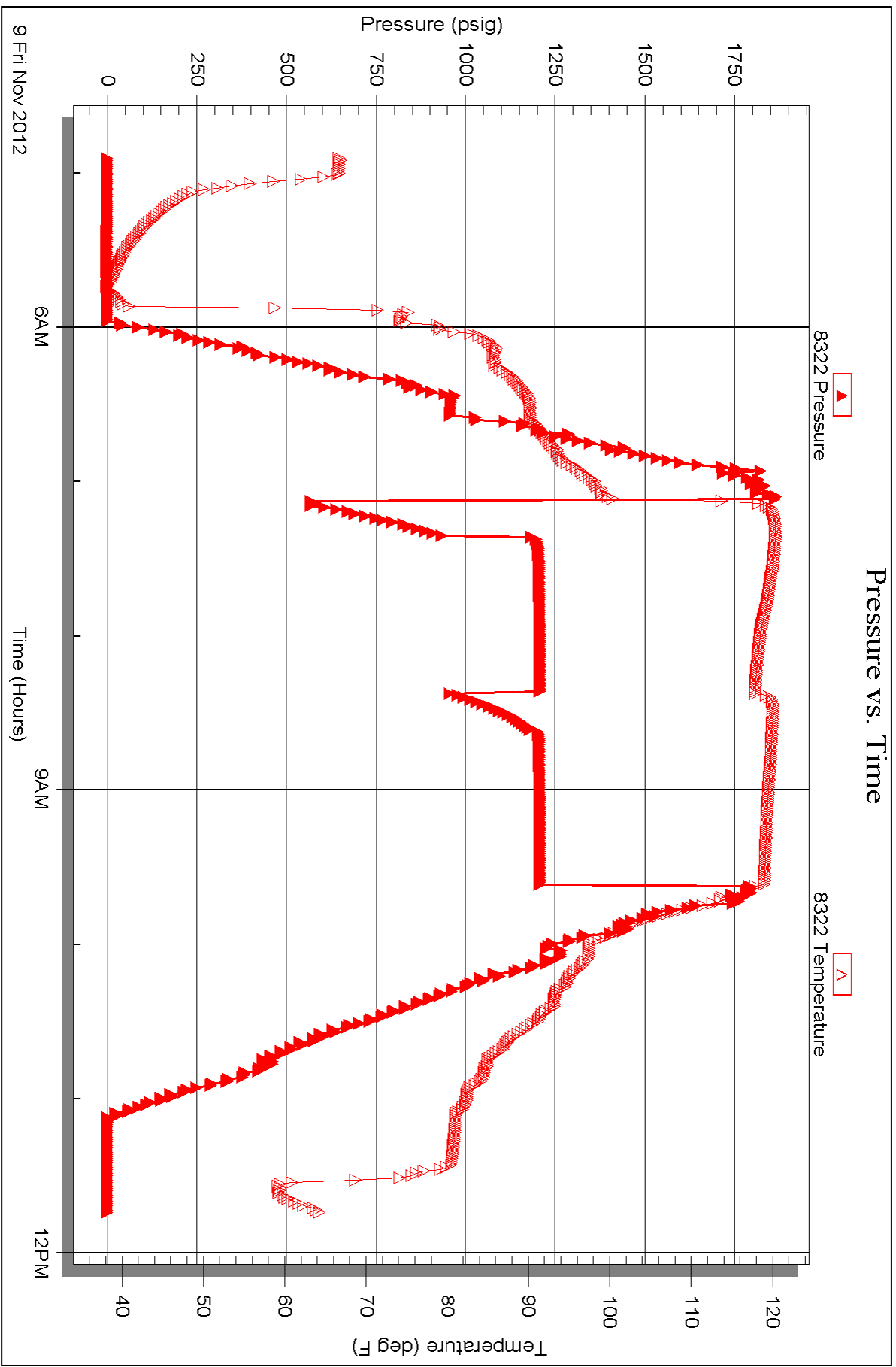


Serial #: 8322

Outside Murfin Drilling Co Inc

Haneke Inv # 1-18

DST Test Number: 6



Triobite Testing, Inc

Ref. No: 48647

Printed: 2012.11.19 @ 13:57:12



TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 48642

4/10

Well Name & No. HANEKE INV. # 1-18 Test No. 1 Date 11-5-12
 Company Murfin Drilling Co. Inc. Elevation 2140 KB 2135 GL
 Address 250 N. Water Ste 300 Wichita KS 67202-1216
 Co. Rep / Geo. Paul Munzelman Rig Murfin #16
 Location: Sec. 18 Twp. 11^s Rge. 20^w Co. Ellis State Ks.

Interval Tested 3336-3370 Zone Tested Oread
 Anchor Length 34 Drill Pipe Run 3296 Mud Wt. 8.8
 Top Packer Depth 3331 Drill Collars Run 29 Vis 60
 Bottom Packer Depth 3336 Wt. Pipe Run 20 WL 6.4
 Total Depth 3370 Chlorides 2500 ppm System LCM 0.0

Blow Description IFP - Weak Surface Blow in 15 min. Build to lin. Surging Blow.
ISIP - No Blow
FFP - Weak Surface Blow in 11 min.
FSIP - No Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>67</u>	<u>MCW</u>		<u>75</u>	<u>25</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 67 BHT 104 Gravity API RW 1440 @ 44 ° F Chlorides 31000 ppm
 (A) Initial Hydrostatic 1615 Test 1150 T-On Location 18:29
 (B) First Initial Flow 15 Jars T-Started 20:10
 (C) First Final Flow 34 Safety Joint 75 T-Open 22:13
 (D) Initial Shut-In 848 Circ Sub T-Pulled 01:13
 (E) Second Initial Flow 37 Hourly Standby T-Out 02:47
 (F) Second Final Flow 47 Mileage 64 RT 99.20 Comments _____
 (G) Final Shut-In 823 Sampler _____
 (H) Final Hydrostatic 1514 Straddle _____
 Ruined Shale Packer _____
 Shale Packer _____
 Ruined Packer _____
 Extra Packer _____
 Extra Copies _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____
 Sub Total 1324.20 MP/DST Disc't _____

Approved By _____ Our Representative [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. 48643

Well Name & No. HANEKE INV. # 1-18 Test No. 2 Date 11-6-12
 Company MURFIN DRILLING CO. INC. Elevation 2140 KB 2135 GL
 Address 250 N. WATER ST. STE 300 WICHITA KS. 67202-1216
 Co. Rep / Geo. PAUL GUNZELMAN Rig MURFIN #16
 Location: Sec. 18 Twp. 11^S Rge. 20^W Co. ELLIS State KS

Interval Tested 3456-3501 Zone Tested LKC "B-D"
 Anchor Length 45 Drill Pipe Run 3424 Mud Wt. 9.2
 Top Packer Depth 3451 Drill Collars Run 29 Vis 52
 Bottom Packer Depth 3456 Wt. Pipe Run 0 WL 7.2
 Total Depth 3501 Chlorides 4700 ppm System LCM 0.0

Blow Description IFP - WEAK SURFACE BLOW DIED IN 10 MIN
ISIP - No Blow
FFP - No Blow
F5IP - No Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>1</u>	<u>MUD</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 1 BHT 104 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 1690 Test 1150 T-On Location 15:43
 (B) First Initial Flow 15 Jars T-Started 15:45
 (C) First Final Flow 16 Safety Joint 75 T-Open 17:45
 (D) Initial Shut-In 41 Circ Sub T-Pulled 20:45
 (E) Second Initial Flow 16 Hourly Standby T-Out 22:03
 (F) Second Final Flow 16 Mileage 99.20 Comments _____
 (G) Final Shut-In 32 Sampler _____
 (H) Final Hydrostatic 1608 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Extra Recorder _____ Sub Total 0
 Day Standby _____ Total 1324.20
 Accessibility _____ MP/DST Disc't _____
 Sub Total 1324.20

Approved By _____ Our Representative [Signature]

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TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 48644

4/10

Well Name & No. HANEKE INV. #1-18 Test No. 3 Date 11-7-12
 Company MURFIN DRILLING CO. INC. Elevation 2140 KB 2135 GL
 Address 250 N. WATER ST. 300 WICHITA KS. 67202-1216
 Co. Rep / Geo. PAUL GUNZELMAN Rig MURFIN #16
 Location: Sec. 18 Twp. 11 S Rge. 20 W Co. ELLIS State KS

Interval Tested 3500-3523 Zone Tested LKC "E & F"
 Anchor Length 23 Drill Pipe Run 3455 Mud Wt. 9.2
 Top Packer Depth 3495 Drill Collars Run 29 Vis 52
 Bottom Packer Depth 3500 Wt. Pipe Run 0 WL 7.2
 Total Depth 3523 Chlorides 4700 ppm System LCM 0.0
 Blow Description IFP-SURFACE BLOW BUILDING TO 1 3/4 IN.
ISIP-NO BLOW
FFP-SURFACE BLOW IN 4 MIN
FSIP-NO BLOW

Rec	Feet of	%gas	%oil	%water	%mud
<u>44</u>	<u>MUD</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 Total 44 BHT 72 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 1714 Test 1150 T-On Location 03:40
 (B) First Initial Flow 12 Jars T-Started 03:51
 (C) First Final Flow 23 Safety Joint 75 T-Open 06:05
 (D) Initial Shut-In 312 Circ Sub T-Pulled 09:05
 (E) Second Initial Flow 25 Hourly Standby T-Out 10:22
 (F) Second Final Flow 30 Mileage 99.20 Comments _____
 (G) Final Shut-In 305 Sampler _____
 (H) Final Hydrostatic 1634 Straddle _____
 Ruined Shale Packer
 Ruined Packer
 Extra Copies
 Sub Total 0
 Total 1324.20
 MP/DST Disc't _____

Initial Open 30
 Initial Shut-In 60
 Final Flow 30
 Final Shut-In 60

Sub Total 1324.20

Approved By _____ Our Representative [Signature]
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TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 48645

4/10

Well Name & No. HANEKE INV. #1-18 Test No. 4 Date 11-7-12
 Company MURFIN DRILLING CO. INC. Elevation 2140 KB 2135 GL
 Address 250 N. WATER ST. 300 WICHITA KS. 67202-1216
 Co. Rep / Geo. PAUL MUNSZELMAN Rig MURFIN #16
 Location: Sec. 18 Twp. 11^S Rge. 20^W Co. ELLIS State KS

Interval Tested 3600 - 3640 Zone Tested LKC "J+K"
 Anchor Length 40 Drill Pipe Run 3582 Mud Wt. 9.1
 Top Packer Depth 3595 Drill Collars Run 29 Vis 56
 Bottom Packer Depth 3600 Wt. Pipe Run Ø WL 6.8
 Total Depth 3640 Chlorides 4500 ppm System LCM 0.0

Blow Description IFP - SURFACE BLOW BUILDING TO 1/4 IN.
ISIP - NO BLOW
FFP - SURFACE BLOW BUILDING TO 3/4 IN.
FSIP - NO BLOW

Rec	Feet of	%gas	%oil	%water	%mud
<u>10</u>	<u>OCM</u>	<u>20</u>		<u>80</u>	
<u>40</u>	<u>CO</u>	<u>100</u>			
	<u>70 - DIP</u>				

Rec Total 50 BHT 108 Gravity 30 API RW @ °F Chlorides ppm

(A) Initial Hydrostatic 1780 Test 1150 T-On Location 22:31
 (B) First Initial Flow 13 Jars T-Started 22:50
 (C) First Final Flow 24 Safety Joint 75 T-Open 1:08
 (D) Initial Shut-In 1126 Circ Sub T-Pulled 5:08
 (E) Second Initial Flow 27 Hourly Standby T-Out 6:51
 (F) Second Final Flow 31 Mileage 99.20 Comments
 (G) Final Shut-In 1116 Sampler
 (H) Final Hydrostatic 1668 Straddle Ruined Shale Packer

Initial Open 30 Shale Packer Ruined Packer
 Initial Shut-In 60 Extra Packer Extra Copies
 Final Flow 60 Extra Recorder Sub Total 0
 Final Shut-In 90 Day Standby Total 1324.20
 Accessibility MP/DST Disc't
 Sub Total 1324.20

Approved By _____ Our Representative [Signature]

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TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 48646

4/10

Well Name & No. HANEKE INV. #1-18 Test No. 5 Date 11-8-12
 Company MURFIN DRILLING CO. INC. Elevation 2140 KB 2135 GL
 Address 250 N. WATER ST. 300 WICHITA KS. 67202-1216
 Co. Rep / Geo. PAUL DUNZELMAN Rig MURFIN #16
 Location: Sec. 18 Twp. 11 S Rge. 20 W Co. ELLIS State KS

Interval Tested 3716 - 3754 Zone Tested Arbuckle
 Anchor Length 38 Drill Pipe Run 3678 Mud Wt. 9.1
 Top Packer Depth 3711 Drill Collars Run 29 Vis 54
 Bottom Packer Depth 3716 Wt. Pipe Run Ø WL 6.8
 Total Depth 3754 Chlorides 6900 ppm System LCM 1
 Blow Description IFP - SURFACE BLOW BUILDING TO 3/4 IN.
ISIP - NO BLOW
FFP - WEAK SURFACE BLOW IN 12 MIN.
FSIP - NO BLOW

Rec	Feet of	%gas	%oil	%water	%mud
<u>32</u>	<u>MUD</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 32 BHT 107 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 1839 Test 1150 T-On Location 17:05
 (B) First Initial Flow 12 Jars T-Started 17:36
 (C) First Final Flow 21 Safety Joint 75 T-Open 19:01
 (D) Initial Shut-In 1127 Circ Sub T-Pulled 22:01
 (E) Second Initial Flow 23 Hourly Standby T-Out 23:42
 (F) Second Final Flow 28 Mileage 99.20 Comments _____
 (G) Final Shut-In 1092 Sampler _____
 (H) Final Hydrostatic 1757 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Initial Open 30 Extra Recorder _____ Sub Total 0
 Initial Shut-In 60 Day Standby _____ Total 1324.20
 Final Flow 30 Accessibility _____ MP/DST Disc't _____
 Final Shut-In 60 Sub Total 1324.20

Approved By _____ Our Representative [Signature]

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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

PROD COPY

Date: 11/6/2012
 Invoice # 6142

P.O.#:
 Due Date: 12/6/2012
 Division: Russell

Invoice

USED FOR _____

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

OPERATOR PAY MDC
 LEASE: Haneke Inv 1-18

APPROVED _____

Haneke

Reference:
 HENEKEINV 1-18

LEASE: _____
OPERATOR PAY MDC

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	31	\$ 335.90	No				
Calcium Chloride	5	\$ 258.73	Yes				
Bulk Truck Mileage-Job to Nearest BULK PLANT	31	\$ 196.56	No				
Premium Gel (Bentonite)	3	\$ 53.03	Yes				

Account	Amount	Description
<u>ID203</u>	<u>3413.83</u>	<u>Cement S. Co. 1-18</u>
	<u>3,3265.0001</u>	
		SubTotal: \$ 4,220.91
		Discount Available ONLY if Invoice is Paid & Received within listed terms of invoice: \$ (633.14)
		SubTotal for Taxable Items: \$ 2,000.88
		SubTotal for Non-Taxable Items: \$ 1,586.89

Invoice Terms:
 Net 30

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.
 ©2008-2013 Straker Investments, LLC. All rights reserved.

Amount Due: \$ 3,713.83
Applied Payments:
Balance Due: \$ 3,713.83

Quality Well Service, Inc.

**324 Simpson St.
Pratt, KS 67124**

*acct.
Prod-124*

Invoice

Date	Invoice #
11/16/2012	C-705

Bill To
Murfin Drilling Co. 250 N. Water St., Ste 300 Wichita, KS 67202

P.O. No.	Terms	Lease Name
		Heneke #1-18

Description	Qty	Rate	Amount
Common	138	15.50	2,139.00T
Poz	92	9.50	874.00T
Gel	8	20.50	164.00T
Flo-Seal	57.5	2.00	115.00T
Dry Hole Plug	1	45.00	45.00T
Plug	1	950.00	950.00T
Handling	238	2.10	499.80T
.08 * sacks * miles	6,900	0.08	552.00T
LMV	30	2.00	60.00T
Pump Truck Mileage	30	8.00	240.00T
Discount	563.88	-1.00	-563.88T
Discount Expires after 30 days from the date of the invoice		0.00	0.00
Heneke #1-18 Ellis Co.			

Thank You for your business!	Subtotal	\$5,074.92
	Sales Tax (6.3%)	\$319.72
	Total	\$5,394.64

0149

QUALITY WELL SERVICE, INC.

5769

Federal Tax I.D. # 481187368

Home Office 324 Simpson St., Pratt, KS 67124

Heath's Cell 620-727-3410
Office / Fax 620-672-3663

Rich's Cell 620-727-3409
Brady's Cell 620-727-6964

Date	11-10-12	Sec.	18	Twp.	11	Range	20	County	Ellis	State	KS	On Location		Finish	3:30-4:00pm
Lease	Heneve		Well No.	1-18		Location Ellis KS 11N 20W 1W 1S E into									
Contractor	Murko #116							Owner							
Type Job	Ream							To Quality Well Service, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.							
Hole Size								T.D.							
Csg.								Depth							
Tbg. Size								Charge To							
Tool								To Murko Drilling Co.							
Cement Left in Csg.								Street							
Meas Line								Depth							
							City								
							State								
							Shoe Joint								
							The above was done to satisfaction and supervision of owner agent or contractor.								
							Displace								
							Cement Amount Ordered								
							230 Sx. 60/40 440 gal 1/4" A0								
EQUIPMENT															
Pumptrk	8	No.					Common		135						
Bulktrk	5	No.					Poz. Mix		92						
Bulktrk		No.					Gel.		8						
Pickup		No.					Calcium								
JOB SERVICES & REMARKS															
Rat Hole							Hulls								
Mouse Hole							Salt								
Centralizers							Flowseal 57.50								
Baskets							Kol-Seal								
D/V or Port Collar							Mud CLR 48								
1st plug @ 3725' = 25 Sx.							CFL-117 or CD110 CAF 38								
2nd plug @ 1620' = 25 Sx.							Sand								
3rd plug @ 825' = 100 Sx.							Handling 238								
4th plug @ 267' = 40 Sx.							Mileage 30								
5th plug @ 40' = 10 Sx / w' port plug							FLOAT EQUIPMENT								
RH - 30 Sx.							Guide Shoe								
Thank you!							Centralizer								
							Baskets								
							AFU Inserts								
							Float Shoe								
							Latch Down								
							894 Dry bulk Plug								
							Pumptrk Charge								
							Mileage 30								
							Tax								
							Discount								
							Total Charge								
X Signature															