



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1076993
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: _____

1076993

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

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



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

Mark Sievers, Chairman
Ward Loyd, Commissioner
Thomas E. Wright, Commissioner

Sam Brownback, Governor

March 22, 2012

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

Re: ACO1
API 15-137-20593-00-00
Schulze Unit #1-11
NW/4 Sec.11-02S-24W
Norton 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

Schulze Unit #1-11 550' FNL 2500' FWL Sec. 11-2S-24W 2521' KB							Julie #1 570' FNL 2300' FEL Sec. 12-2S-24W 2500' KB	
Formation	Sample tops	Datum	Ref	Log Tops	Datum	Ref	Log Tops	Datum
Anhydrite	2053	+468	+2	2052	+469	+3	2034	+466
B/Anhydrite	2085	+436	-2	2081	+44	+2	2062	+438
Neva	2880	-359	+4	2878	-357	+6	2863	-363
Topeka	3282	-761	+9	3278	-757	+13	3270	-770
Heebner	3455	-934	+8	3448	-927	+15	3442	-942
Toronto	3487	-966	+7	3484	-963	+10	3473	-973
Lansing	3500	-979	+7	3498	-977	+9	3486	-986
Stark	3644	-1123	+9	3643	-1122	+10	3632	-1132
BKC	3690	-1169	+5	3688	-1167	+7	3674	-1174
Arbuckle	3720	-1199	+19	3719	-1198	+20	3718	-1218
Reagan SD	3752	-1231		3756	-1235		NDE	
Granite Wash	3757	-1236		3766	-1245		NDE	
RTD	3803							
LTD				3803			3756	



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Drilling Co.

11 2 24w Norton Ks

250 N. Water
STE.300 Wichita Ks.
67202

Schulze #1-11

Job Ticket: 042974

DST#: 1

ATTN: Robert Hendrix

Test Start: 2012.01.26 @ 23:45:00

GENERAL INFORMATION:

Formation: **LKC-B**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 01:27:30

Time Test Ended: 06:17:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Chuck Kreuzer Jr

Unit No: 36

Interval: 3511.00 ft (KB) To 3540.00 ft (KB) (TVD)

Reference Elevations: 2520.00 ft (KB)

Total Depth: 3540.00 ft (KB) (TVD)

2510.00 ft (CF)

Hole Diameter: 7.80 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 6752 Inside

Press @ Run Depth: 17.17 psig @ 3512.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.01.26 End Date: 2012.01.27

Last Calib.: 2012.01.26

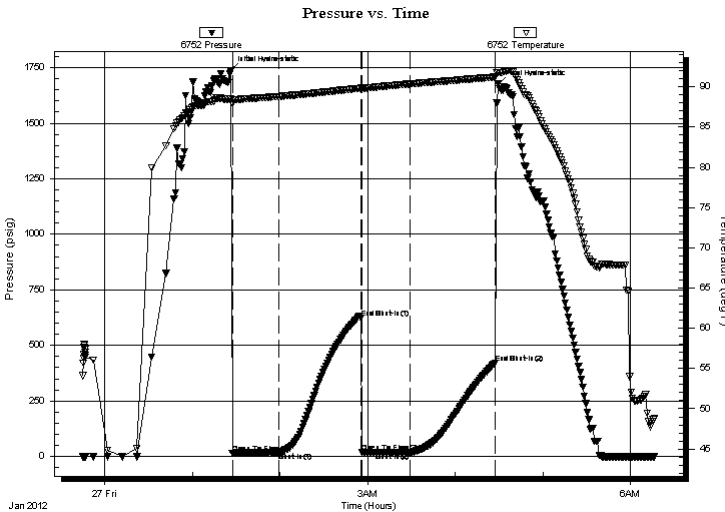
Start Time: 23:45:05 End Time: 06:16:59

Time On Btm: 2012.01.27 @ 01:26:00

Time Off Btm: 2012.01.27 @ 04:29:30

TEST COMMENT: IF: Weak blow, Never built pasted 1/4 in.
IS: No blow back over 60 mins.
FF: Weak blow, Built to 1/2 in. over 30 mins.
FS: No blow back over 60 mins.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1738.17	88.55	Initial Hydro-static
2	14.14	87.88	Open To Flow (1)
34	17.87	88.82	Shut-In(1)
90	623.27	89.83	End Shut-In(1)
90	17.33	89.80	Open To Flow (2)
123	17.17	90.37	Shut-In(2)
182	421.06	91.22	End Shut-In(2)
184	1676.10	91.81	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	mud-100%m	0.02

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co.

11 2 24w Norton Ks

250 N. Water
STE.300 Wichita Ks.
67202

Schulze #1-11

Job Ticket: 042974

DST#: 1

ATTN: Robert Hendrix

Test Start: 2012.01.26 @ 23:45:00

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: 67.00 sec/qt

Cushion Volume: bbl

Water Loss: 6.40 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure: psig

Salinity: 600.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	mud-100%m	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0

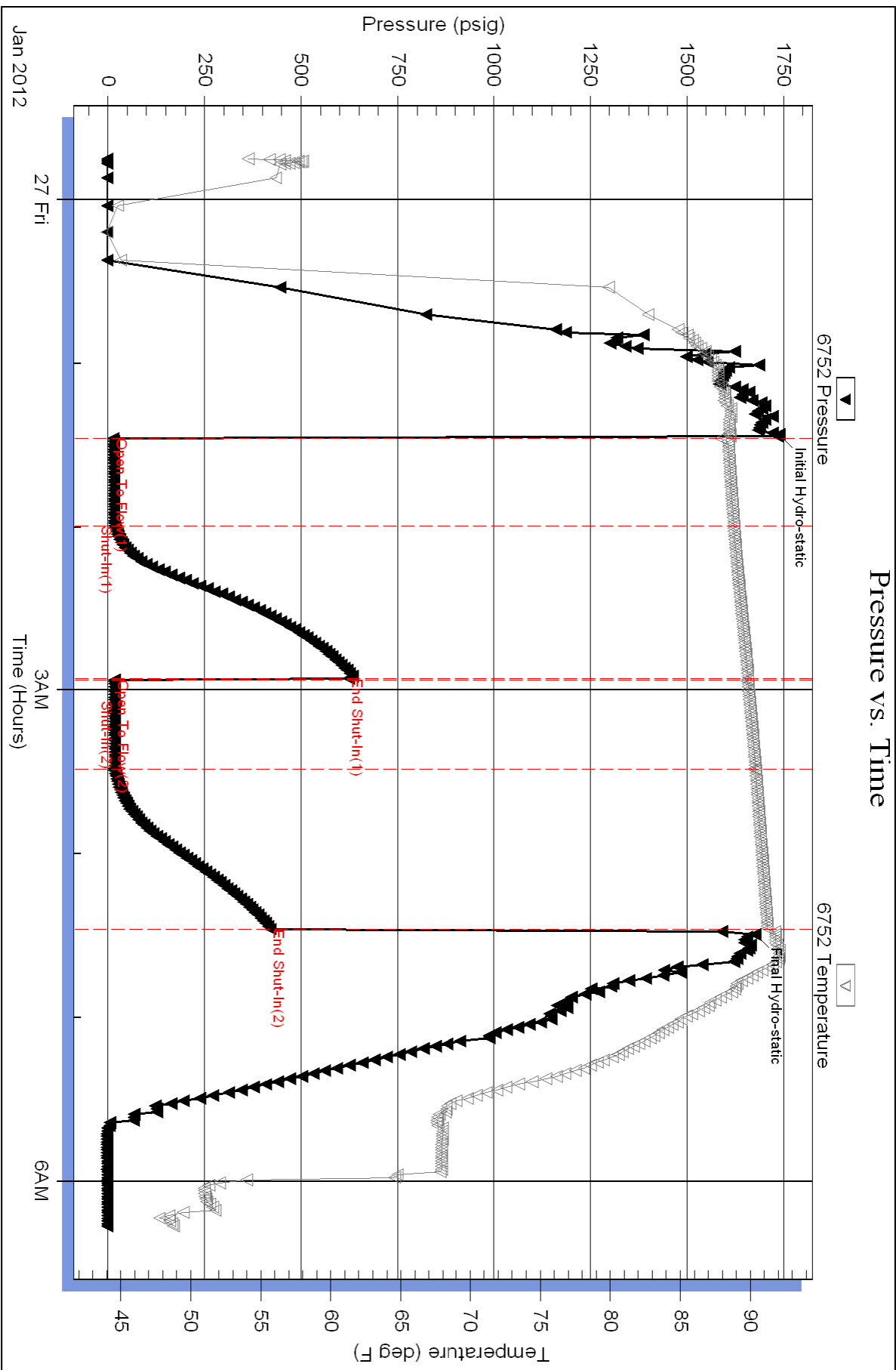
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Drilling Co.

11 2 24w Norton Ks

250 N. Water
STE.300 Witchita Ks.
67202

Schulze #1-11

Job Ticket: 042975

DST#: 2

ATTN: Robert Hendrix

Test Start: 2012.01.27 @ 15:00:00

GENERAL INFORMATION:

Formation: **LKC-F**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:39:30

Time Test Ended: 21:23:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Chuck Kreuzer Jr

Unit No: 36

Interval: 3557.00 ft (KB) To 3574.00 ft (KB) (TVD)

Reference Elevations: 2520.00 ft (KB)

Total Depth: 3574.00 ft (KB) (TVD)

2510.00 ft (CF)

Hole Diameter: 7.80 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 6752 Inside

Press @ Run Depth: 16.94 psig @ 3558.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.01.27 End Date: 2012.01.27

Last Calib.: 2012.01.27

Start Time: 15:00:05 End Time: 21:22:59

Time On Btm: 2012.01.27 @ 16:23:30

Time Off Btm: 2012.01.27 @ 19:40:30

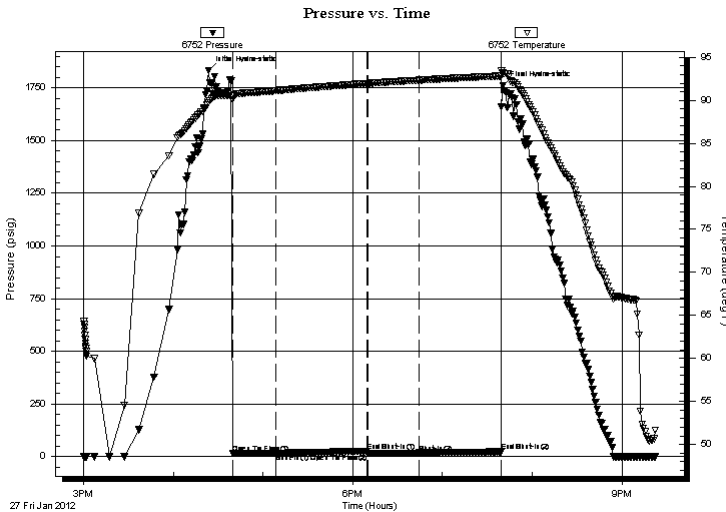
TEST COMMENT: IF: Weak blow, Surface blow over 30 mins.

IS: No blow back over 60 mins.

FF: No blow over 30 mins.

FS: No blow back over 60 mins.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1833.42	89.72	Initial Hydro-static
16	15.15	90.11	Open To Flow (1)
45	16.27	91.13	Shut-In(1)
106	25.49	91.97	End Shut-In(1)
107	15.05	91.97	Open To Flow (2)
141	16.94	92.35	Shut-In(2)
196	22.71	92.84	End Shut-In(2)
197	1760.11	93.17	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	mud-100%	0.02

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co.

11 2 24w Norton Ks

250 N. Water
STE.300 Wichita Ks.
67202

Schulze #1-11

Job Ticket: 042975

DST#: 2

ATTN: Robert Hendrix

Test Start: 2012.01.27 @ 15:00:00

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: 64.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 11.49 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 600.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	mud-100%	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

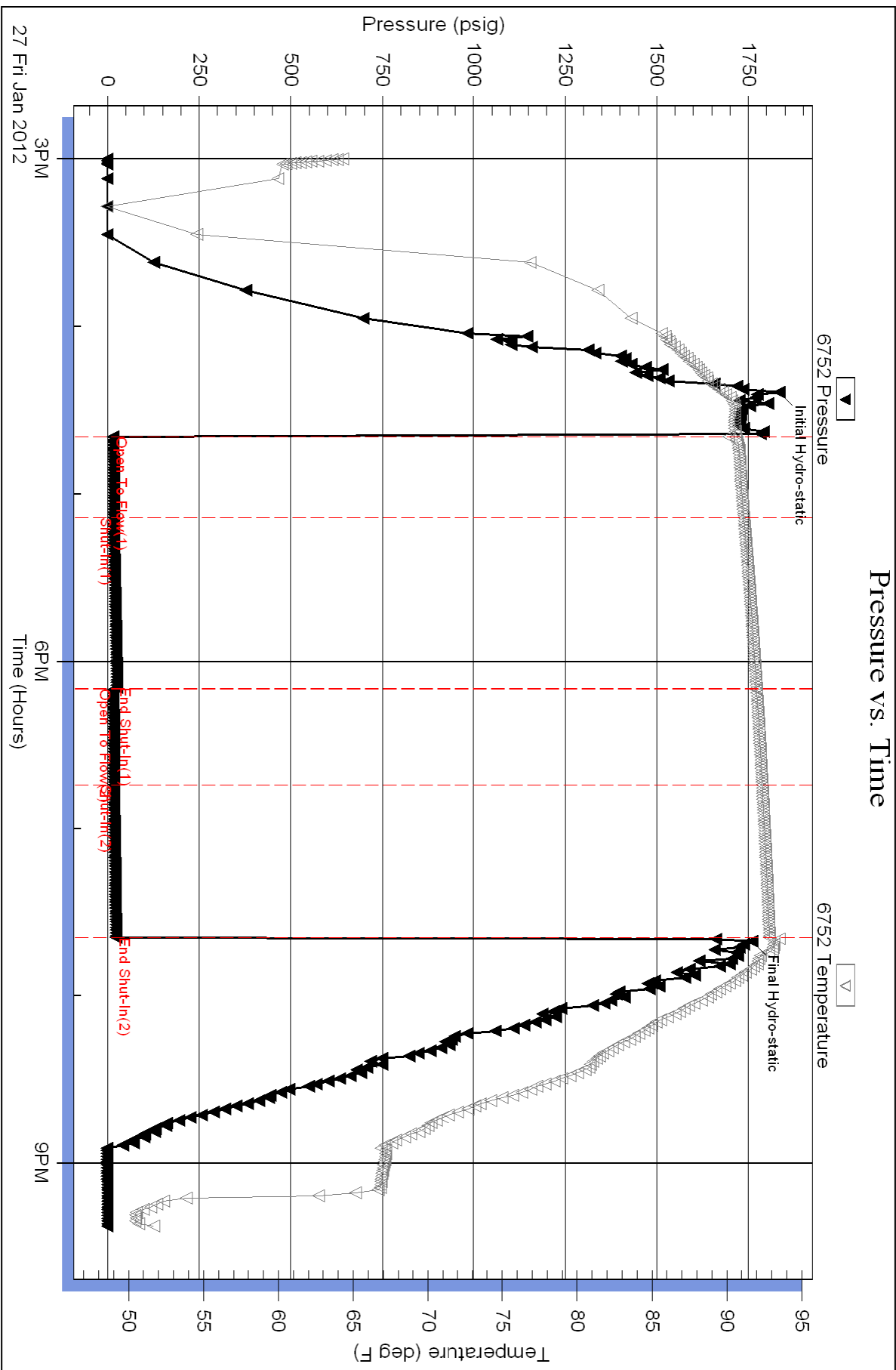
Serial #: 6752

Inside

Murfin Drilling Co.

Schulze #1-11

DST Test Number: 2

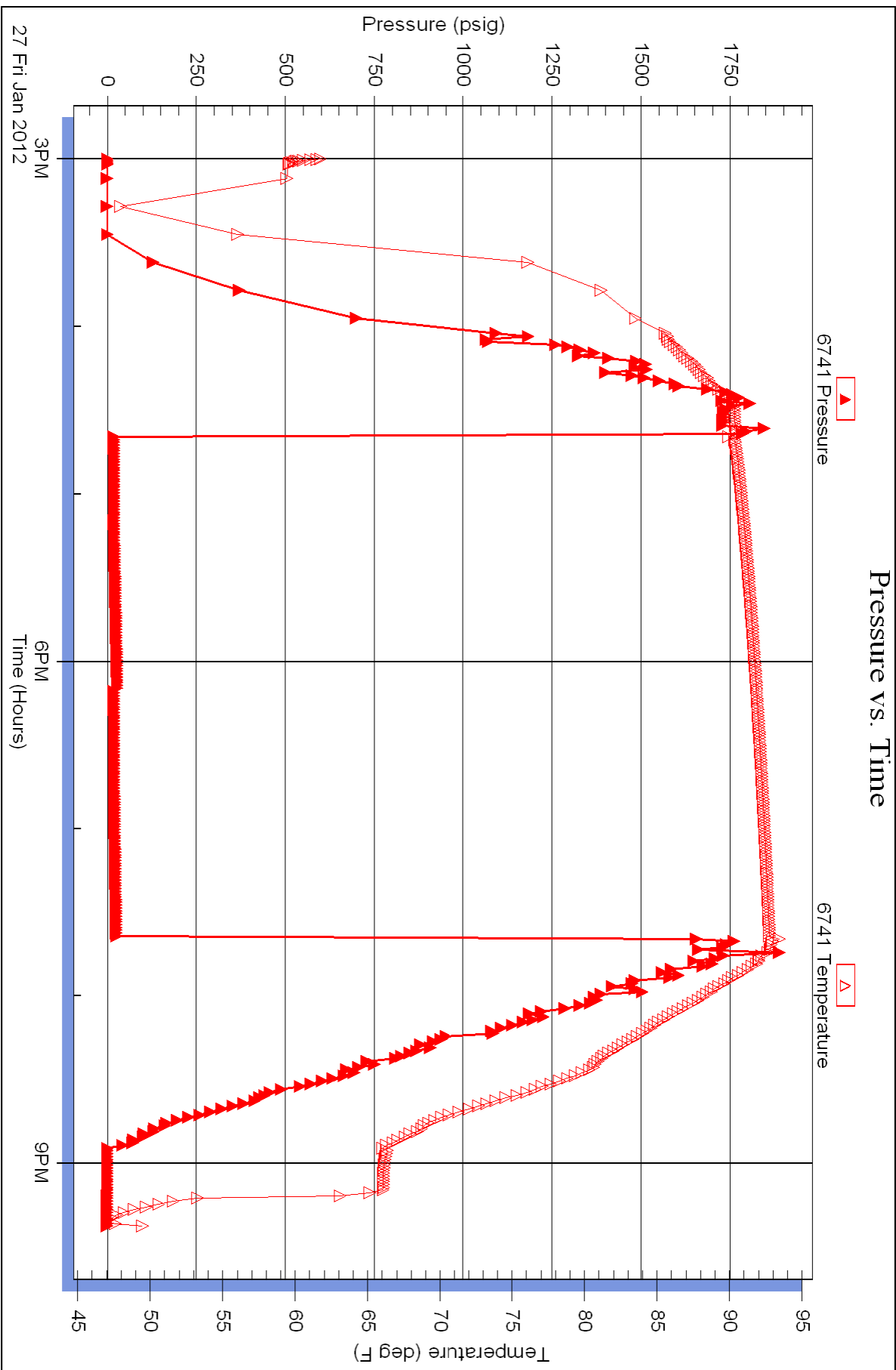


Serial #: 6741

Outside Murfin Drilling Co.

Schulze #1-11

DST Test Number: 2





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Drilling Co.

11 2 24w Norton Ks

250 N. Water
STE.300 Wichita Ks.
67202

Schulze #1-11

Job Ticket: 042026

DST#: 3

ATTN: Robert Hendrix

Test Start: 2012.01.28 @ 03:25:00

GENERAL INFORMATION:

Formation: **LKC_G**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:04:30

Time Test Ended: 10:44:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Chuck Kreuzer Jr

Unit No: 36

Interval: 3571.00 ft (KB) To 3590.00 ft (KB) (TVD)

Reference Elevations: 2520.00 ft (KB)

Total Depth: 3590.00 ft (KB) (TVD)

2510.00 ft (CF)

Hole Diameter: 7.80 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 6752 Inside

Press @ Run Depth: 109.27 psig @ 3572.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.01.28

End Date: 2012.01.28

Last Calib.: 2012.01.28

Start Time: 03:25:05

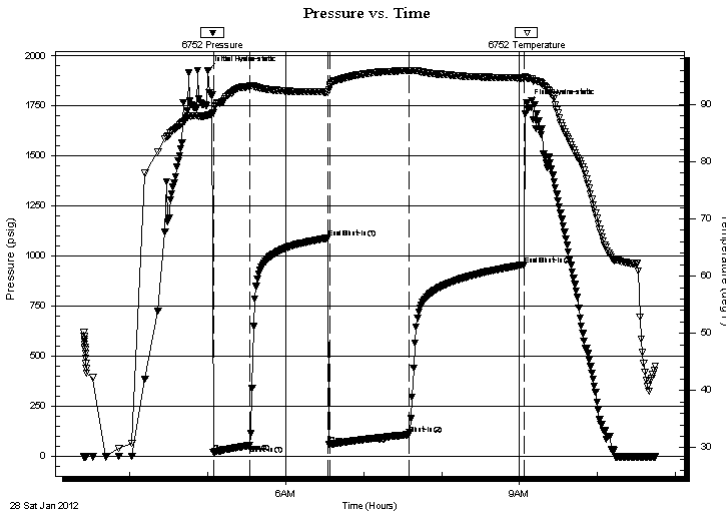
End Time: 10:44:29

Time On Btm: 2012.01.28 @ 05:00:30

Time Off Btm: 2012.01.28 @ 09:05:30

TEST COMMENT: IF: Weak blow, Built to 3 in. over 30 mins.
IS: No blow back over 60 mins.
FF: Weak blow after 5 mins., Built to 1 in. over 60 mins.
FSI: No blow back over 90 mins.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1928.22	88.10	Initial Hydro-static
4	22.30	88.59	Open To Flow (1)
32	55.13	93.25	Shut-In(1)
92	1090.68	92.18	End Shut-In(1)
94	58.82	93.18	Open To Flow (2)
155	109.27	95.95	Shut-In(2)
243	957.78	94.60	End Shut-In(2)
245	1764.00	94.60	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	w cm-30%w 70%m	0.30
120.00	MCW-10%m90%w	0.59
1.00	oil-100%	0.00

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co.

11 2 24w Norton Ks

250 N. Water
STE.300 Wichita Ks.
67202

Schulze #1-11

Job Ticket: 042026

DST#: 3

ATTN: Robert Hendrix

Test Start: 2012.01.28 @ 03:25:00

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: 64.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 11.49 in³

Gas Cushion Type:

Resistivity: 0.51 ohm.m

Gas Cushion Pressure:

psig

Salinity: 600.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	w cm-30%w 70%m	0.295
120.00	MCW-10%m90%w	0.590
1.00	oil-100%	0.005

Total Length: 181.00 ft Total Volume: 0.890 bbl

Num Fluid Samples: 0

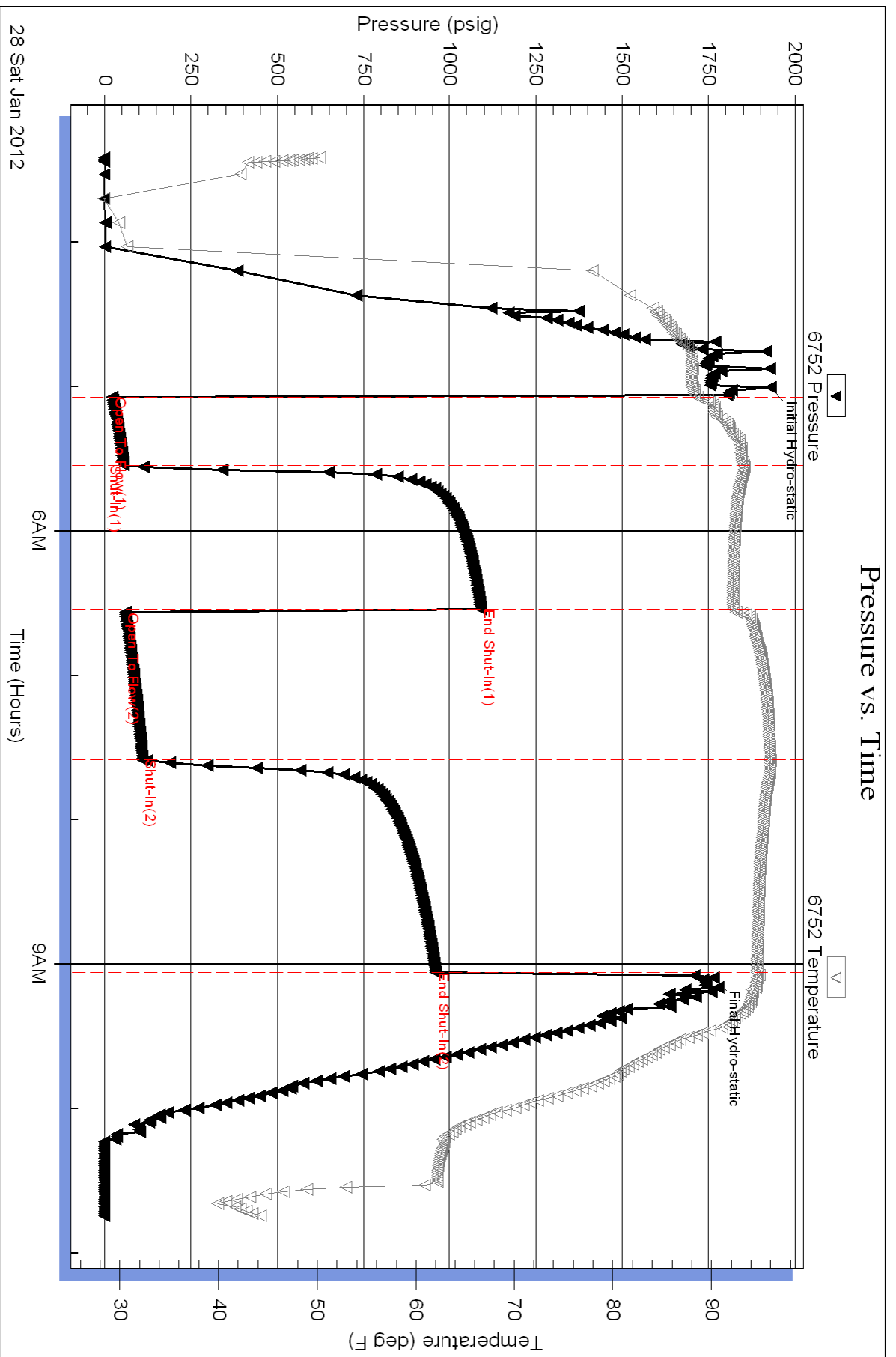
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

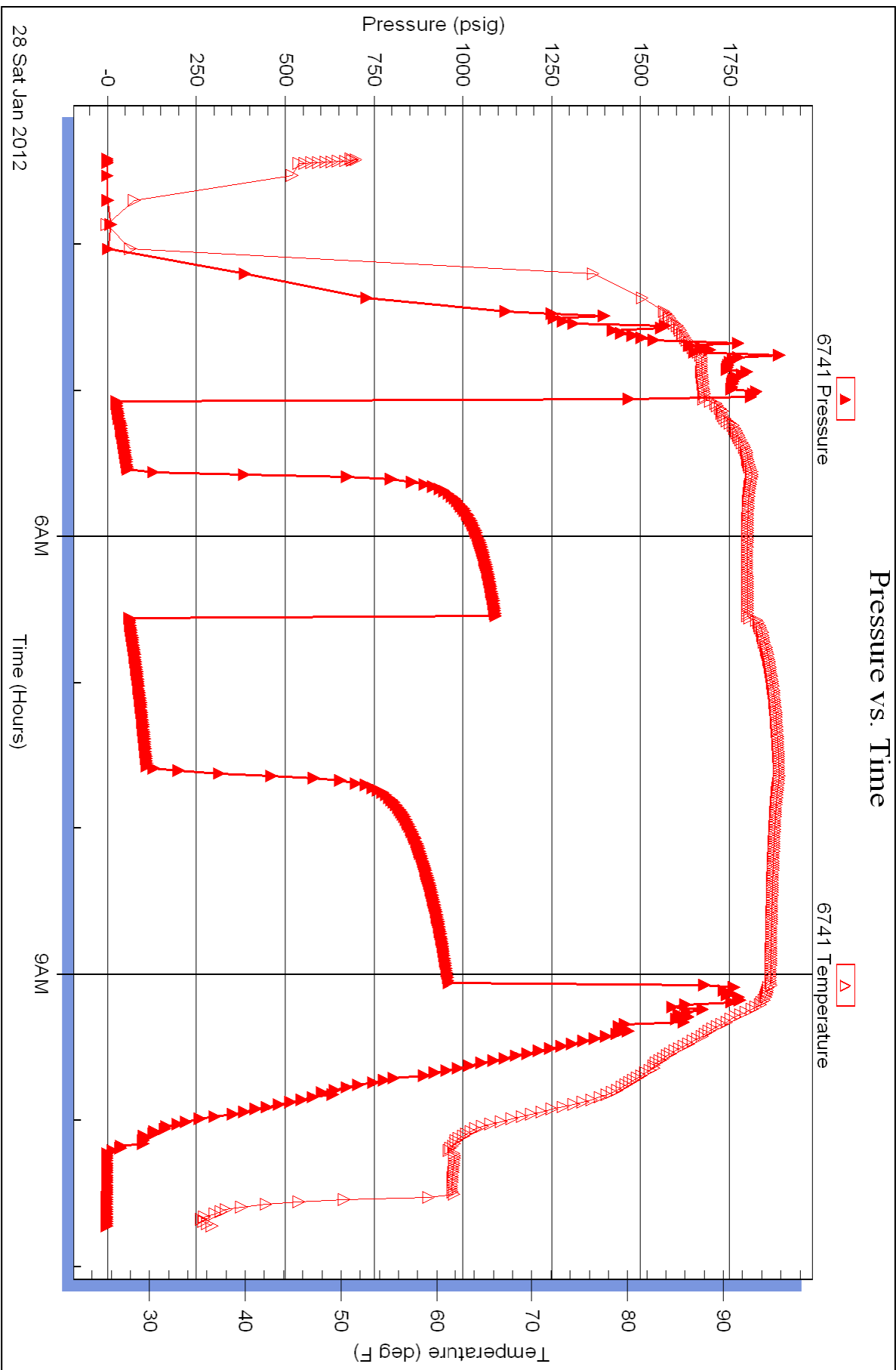


Serial #: 6741

Outside Murfin Drilling Co.

Schulze #1-11

DST Test Number: 3



28 Sat Jan 2012



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co.

11 2 24w Norton Ks

250 N. Water
STE.300 Wichita Ks.
67202

Schulze #1-11

Job Ticket: 042027

DST#: 4

ATTN: Robert Hendrix

Test Start: 2012.01.28 @ 20:22:00

GENERAL INFORMATION:

Formation: **LKC-H-I-J**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:53:00

Time Test Ended: 02:50:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Chuck Kreuzer Jr

Unit No: 36

Interval: 3596.00 ft (KB) To 3645.00 ft (KB) (TVD)

Reference Elevations: 2520.00 ft (KB)

Total Depth: 3645.00 ft (KB) (TVD)

2510.00 ft (CF)

Hole Diameter: 7.80 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 6752 Inside

Press @ RunDepth: 21.38 psig @ 3599.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.01.28

End Date:

2012.01.29

Last Calib.:

2012.01.29

Start Time: 20:22:05

End Time:

02:50:29

Time On Btm:

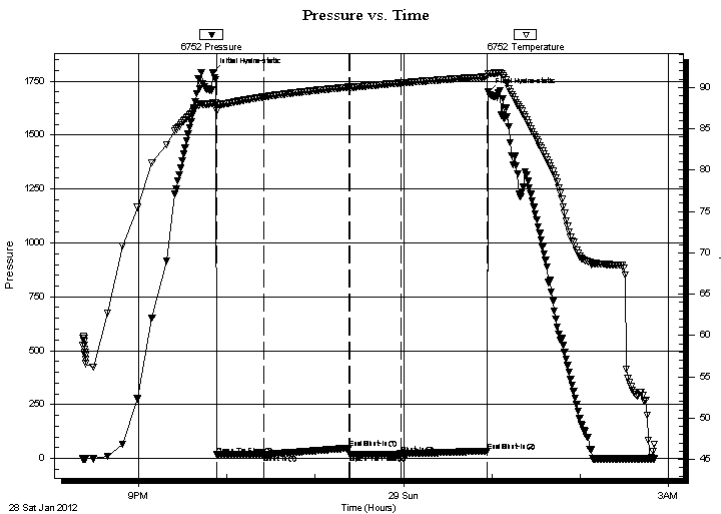
2012.01.28 @ 21:50:30

Time Off Btm:

2012.01.29 @ 00:57:30

TEST COMMENT: IF: Weak blow, Died in 25 mins.
IS: No blow back over 60 mins.
FF: No blow over 30 mins.
FS: No blow back over 60 mins.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1790.76	88.09	Initial Hydro-static
3	16.73	87.14	Open To Flow (1)
35	18.42	88.85	Shut-In(1)
93	48.38	90.05	End Shut-In(1)
93	19.64	90.04	Open To Flow (2)
128	21.38	90.53	Shut-In(2)
186	34.62	91.29	End Shut-In(2)
187	1699.24	91.66	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	mud-100%	0.02

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co.

11 2 24w Norton Ks

250 N. Water
STE.300 Wichita Ks.
67202

Schulze #1-11

Job Ticket: 042027

DST#: 4

ATTN: Robert Hendrix

Test Start: 2012.01.28 @ 20:22:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 65.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 700.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	mud-100%	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co.

11 2 24w Norton Ks

250 N. Water
STE.300 Wichita Ks.
67202

Schulze #1-11

Job Ticket: 042028

DST#: 5

ATTN: Robert Hendrix

Test Start: 2012.01.29 @ 12:30:00

GENERAL INFORMATION:

Formation: **LKC-K,L**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:16:00

Time Test Ended: 15:30:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Chuck Kreuzer Jr

Unit No: 36

Interval: 3639.00 ft (KB) To 3686.00 ft (KB) (TVD)

Reference Elevations: 2520.00 ft (KB)

Total Depth: 3540.00 ft (KB) (TVD)

2510.00 ft (CF)

Hole Diameter: 7.80 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 6752 Inside

Press @ Run Depth: psig @ 3642.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.01.29

End Date: 2012.01.29

Last Calib.: 2012.01.29

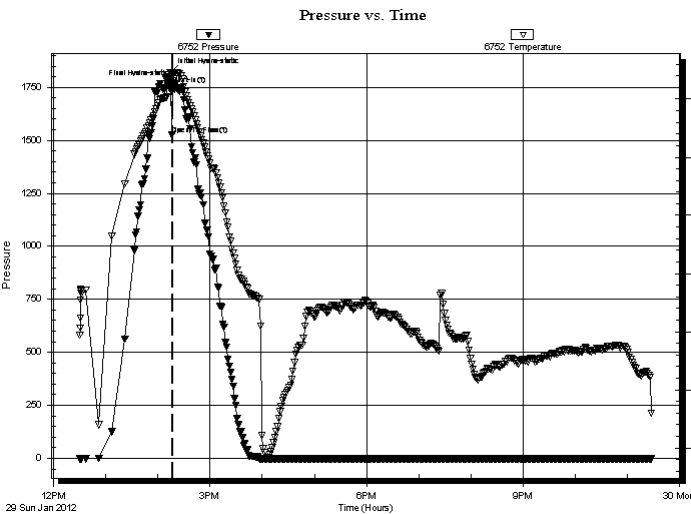
Start Time: 12:30:05

End Time: 23:28:30

Time On Btm: 2012.01.29 @ 14:14:00

Time Off Btm: 2012.01.29 @ 14:20:30

TEST COMMENT: IF: Trip in hole with tool, Went to set tool and started loosing mud as we were putting w.t. on tool. Picked up and bled off blow (mud only went down 20 feet). Tried to set tool again, Tool opened, Lost mud. Pulled tool. Went back in hole with bit to circ. Went back to drilling.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1820.25	91.90	Initial Hydro-static
2	1527.10	91.98	Open To Flow (1)
3	1761.68	92.21	Shut-In(1)
7	1764.47	92.26	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	mud-100%m	0.02

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co.

11 2 24w Norton Ks

250 N. Water
STE.300 Wichita Ks.
67202

Schulze #1-11

Job Ticket: 042028

DST#: 5

ATTN: Robert Hendrix

Test Start: 2012.01.29 @ 12:30:00

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: 67.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.38 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 600.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	mud-100%m	0.025

Total Length: ft Total Volume: bbl

Num Fluid Samples: Num Gas Bombs: Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments:

Serial #: 6752

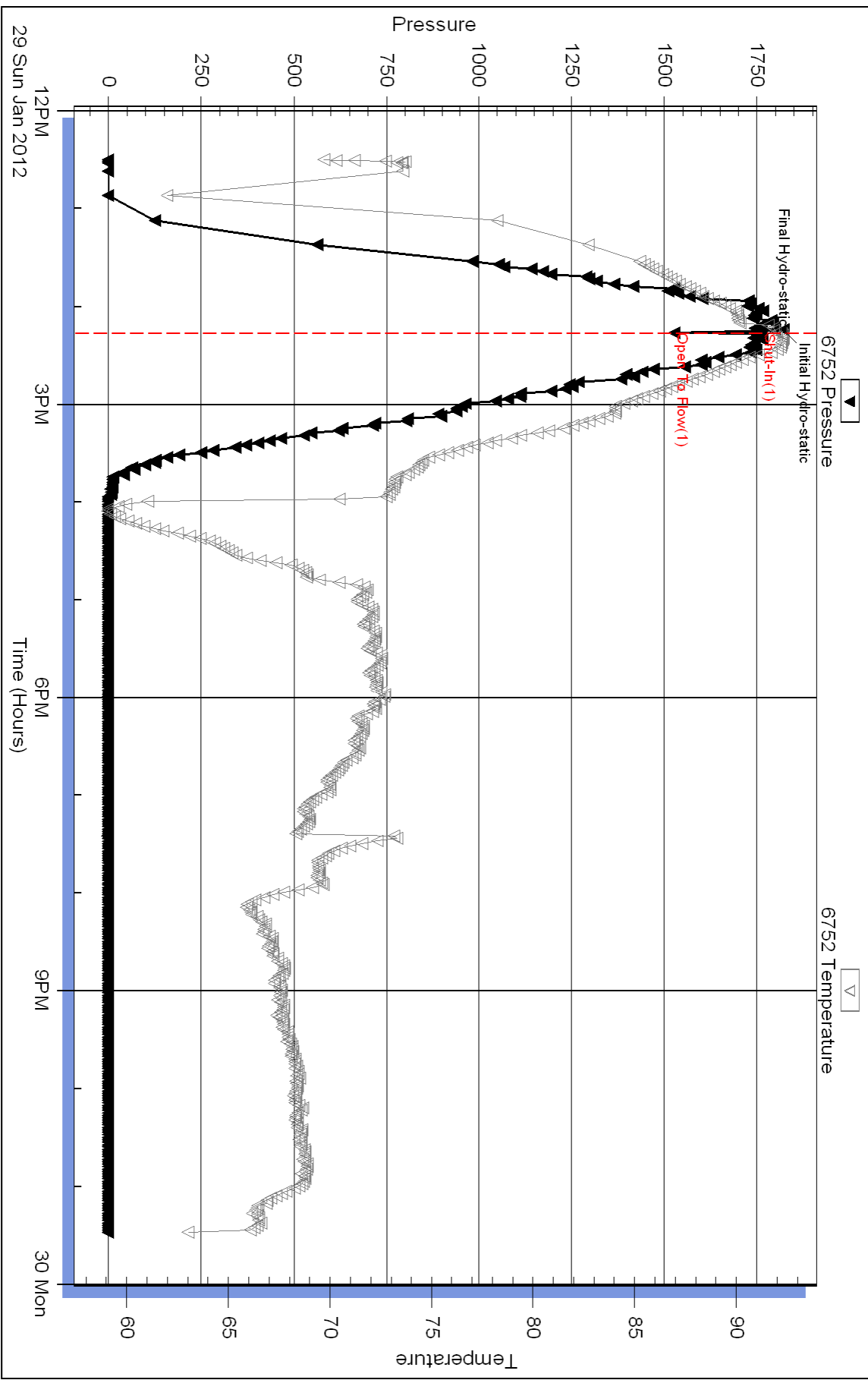
Inside

Murfin Drilling Co.

Schulze #1-11

DST Test Number: 5

Pressure vs. Time





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Drilling Co.

11 2 24w Norton Ks

250 N. Water
STE.300 Witchita Ks.
67202

Schulze #1-11

Job Ticket: 04229

DST#: 6

ATTN: Robert Hendrix

Test Start: 2012.01.30 @ 00:01:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 01:35:30

Time Test Ended: 06:33:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Chuck Kreuzer Jr

Unit No: 36

Interval: 37065.0 ft (KB) To 3730.00 ft (KB) (TVD)

Reference Elevations: 2520.00 ft (KB)

Total Depth: 3730.00 ft (KB) (TVD)

2510.00 ft (CF)

Hole Diameter: 7.80 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 6752 Inside

Press @ Run Depth: 20.76 psig @ 3709.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.01.30

End Date: 2012.01.30

Last Calib.: 2012.01.30

Start Time: 00:01:05

End Time: 06:33:29

Time On Btm: 2012.01.30 @ 01:23:30

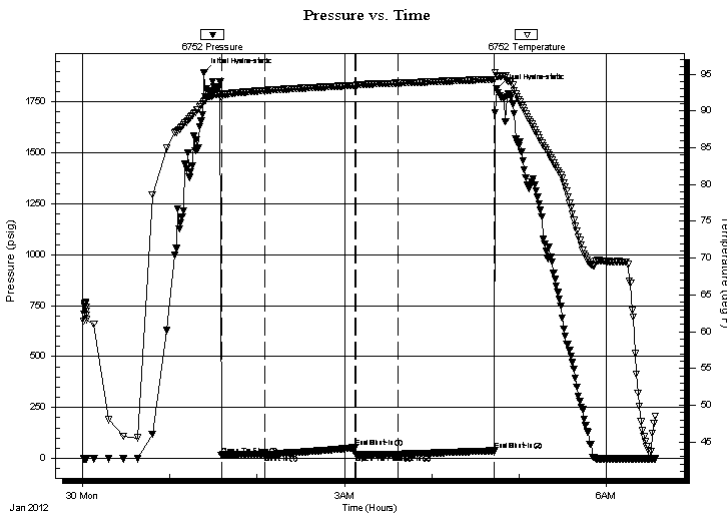
Time Off Btm: 2012.01.30 @ 04:44:30

TEST COMMENT: IF: Weak surface blow over 30 mins.

IS: No blow back over 60 mins.

FF: No blow over 30 mins.

FS: No blow back over 60 mins.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1895.07	91.26	Initial Hydro-static
12	16.88	91.88	Open To Flow (1)
42	19.20	92.80	Shut-In(1)
104	53.02	93.49	End Shut-In(1)
104	19.80	93.50	Open To Flow (2)
133	20.76	93.81	Shut-In(2)
200	38.25	94.33	End Shut-In(2)
201	1813.94	94.74	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	mud-100%	0.02

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co.

11 2 24w Norton Ks

250 N. Water
STE.300 Wichita Ks.
67202

Schulze #1-11

Job Ticket: 04229

DST#: 6

ATTN: Robert Hendrix

Test Start: 2012.01.30 @ 00:01:00

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: 60.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.40 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1300.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	mud-100%	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

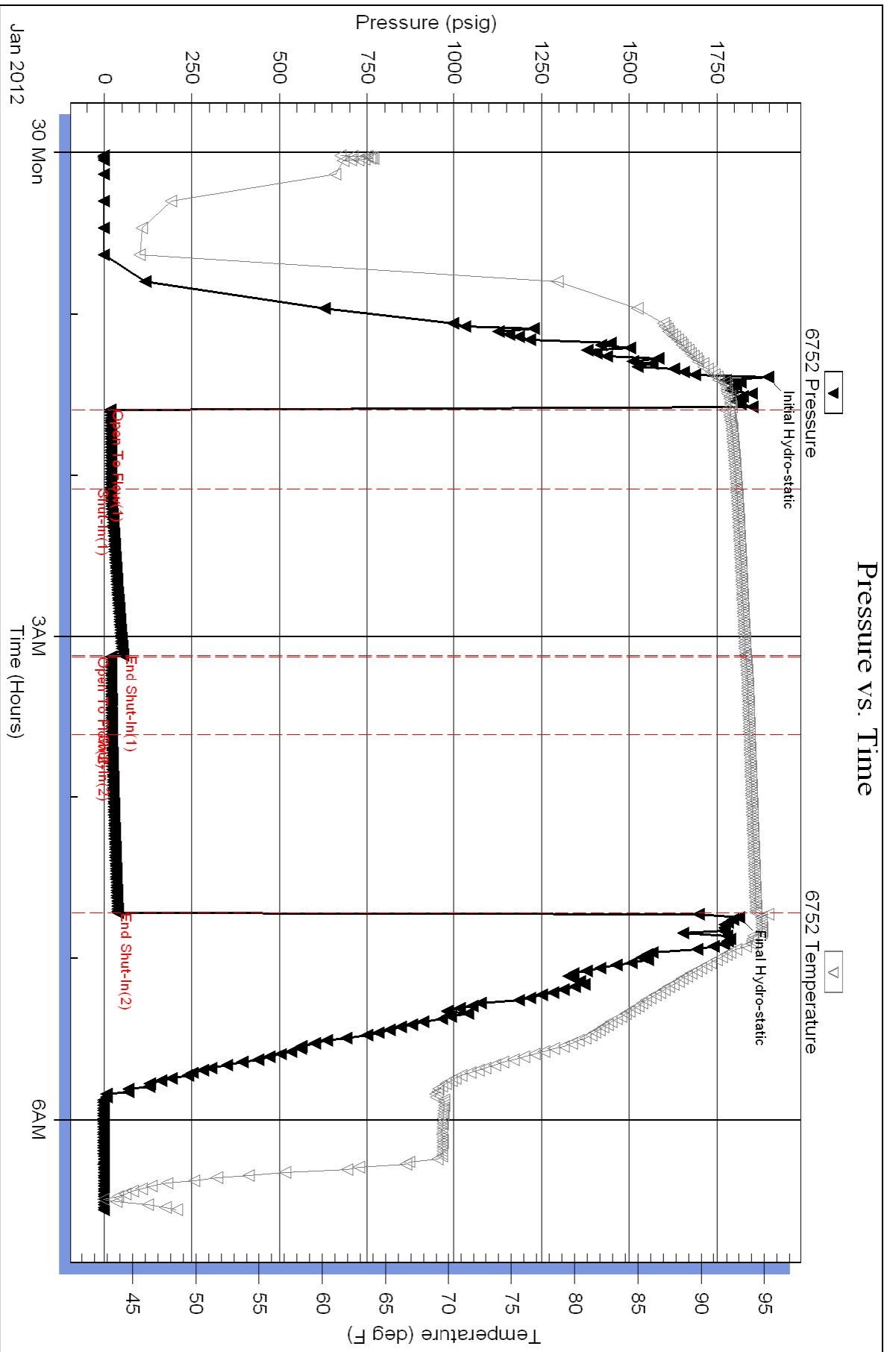
Serial #: 6752

Inside

Murfin Drilling Co.

Schulze #1-11

DST Test Number: 6





**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Co.

11 2 24w Norton Ks

250 N. Water
STE.300 Wichita Ks.
67202

Schulze #1-11

Job Ticket: 042030

DST#: 7

ATTN: Robert Hendrix

Test Start: 2012.01.31 @ 00:55:00

GENERAL INFORMATION:

Formation: **Reagan sand**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:27:30

Time Test Ended: 09:23:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Chuck Kreuzer Jr

Unit No: 36

Interval: 3724.00 ft (KB) To 3803.00 ft (KB) (TVD)

Reference Elevations: 2520.00 ft (KB)

Total Depth: 3803.00 ft (KB) (TVD)

2510.00 ft (CF)

Hole Diameter: 7.80 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 6741 Outside

Press @ Run Depth: 451.02 psig @ 3726.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.01.31

End Date:

2012.01.31

Last Calib.: 2012.01.31

Start Time: 00:55:05

End Time:

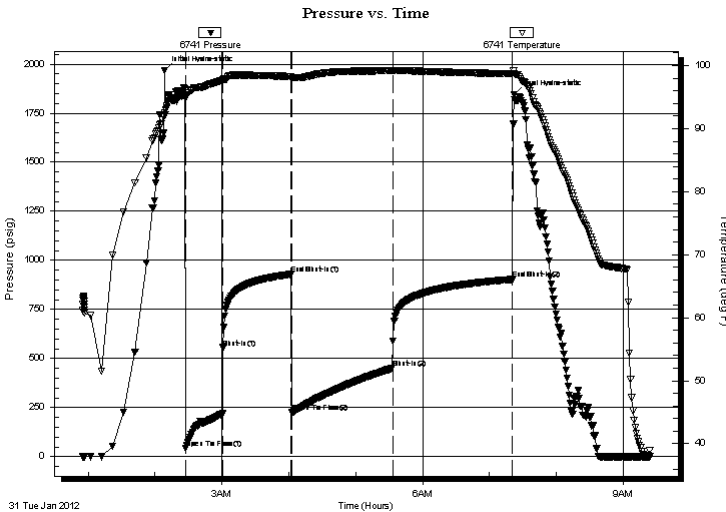
09:23:29

Time On Btm: 2012.01.31 @ 02:08:30

Time Off Btm: 2012.01.31 @ 07:22:00

TEST COMMENT: IF: Strong blow , Built to B.O.B in 6 mins.
IS: No blow back over 60 mins.
FF: Weak blow built to B.O.B in 28 mins.
FS: No blow back over 90 mins.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1967.84	92.58	Initial Hydro-static
19	41.99	95.03	Open To Flow (1)
53	554.83	97.82	Shut-In(1)
113	928.75	98.29	End Shut-In(1)
114	224.40	97.96	Open To Flow (2)
205	451.02	99.17	Shut-In(2)
312	903.23	98.71	End Shut-In(2)
314	1846.25	98.76	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
866.00	mcw -5% m95%w	9.97
252.00	w cm-50%w 50%m	3.53

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co.

11 2 24w Norton Ks

250 N. Water
STE.300 Wichita Ks.
67202

Schulze #1-11

Job Ticket: 042030

DST#: 7

ATTN: Robert Hendrix

Test Start: 2012.01.31 @ 00:55:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 60.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.40 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1300.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
866.00	mcw -5%m95%w	9.971
252.00	w cm-50%w 50%m	3.535

Total Length: 1118.00 ft

Total Volume: 13.506 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

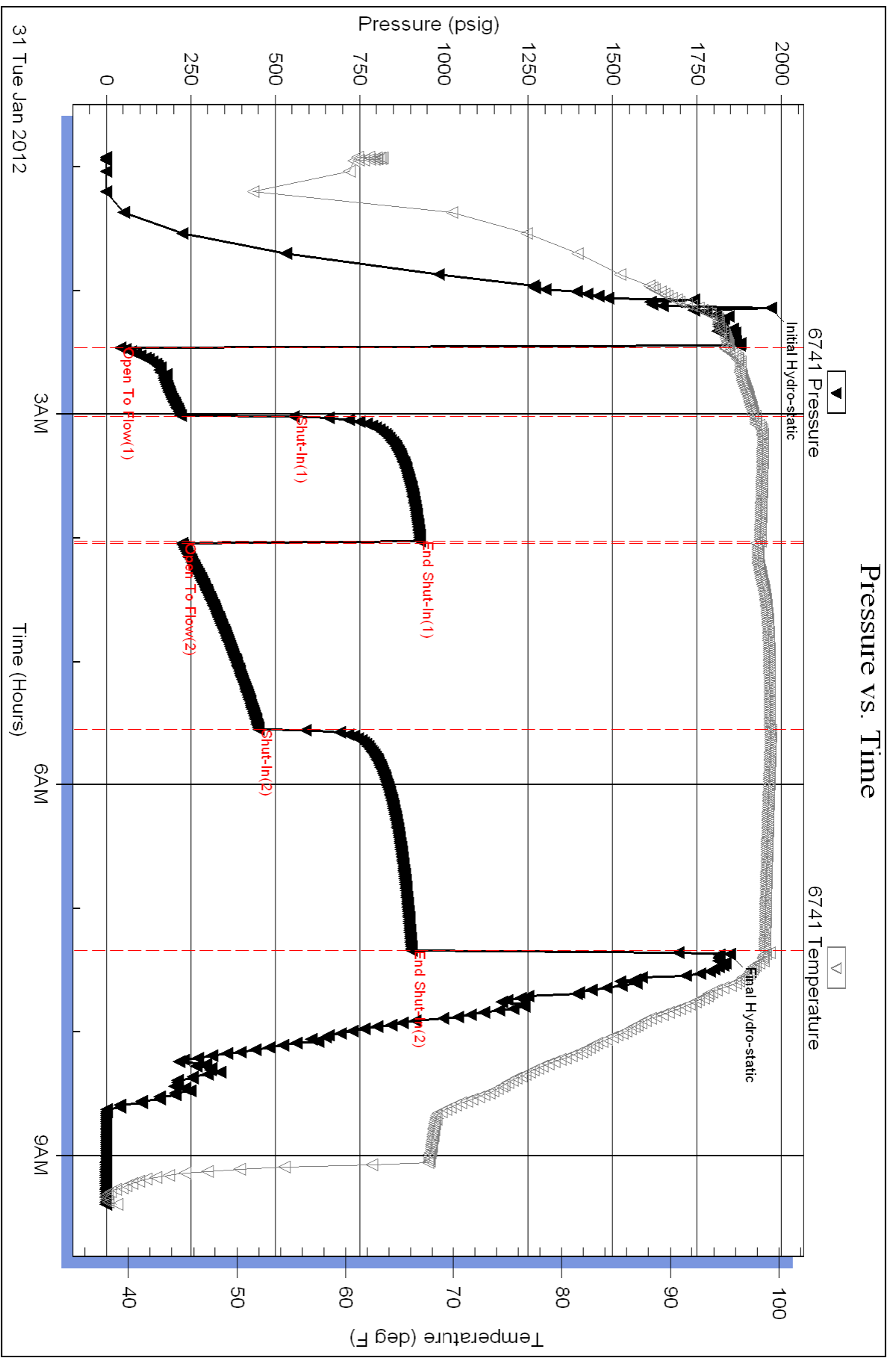
Recovery Comments:

Serial #: 6741

Outside Murfin Drilling Co.

Schulze #1-11

DST Test Number: 7





PO Box 93999
Southlake, TX 76092

Voice: (817) 546-7282
Fax: (817) 246-3361

Scy H. Orest.

INVOICE

Invoice Number: 130077

Invoice Date: Feb 1, 2012

Page: 1

PROD COPY
OPERATOR PAY MDC
LEASE: Schulze 1-12

Federal Tax I.D.#: 20-8651475

Bill To:
Murfin Drlg. Co., Inc.
PO Box 661
Colby, KS 67701

Customer ID	Well Name# or Customer P.O.	Payment Terms	
Murfin	Schulze #1-11	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS2-01	Great Bend	Feb 1, 2012	3/2/12

Quantity	Item	Description	Unit Price	Amount
200.00	MAT	Class A Common	16.25	3,250.00
7.00	MAT	Chloride	58.20	407.40
207.00	SER	Handling	2.25	465.75
80.00	SER	Mileage	22.77	1,821.60
1.00	SER	Surface	1,125.00	1,125.00
80.00	SER	Heavy Vehicle Mileage	7.00	560.00
80.00	SER	Light Vehicle Mileage	4.00	320.00
1.00	EQP	8 5/8 Wood Plug	92.00	92.00
1.00	EQUIP OPER	Greg Redetzke		
1.00	EQUIP OPER	Dustin Chambers		
1.00	OPER ASSIST	Vince Pack		

Account	Unit	W	No.	Amount	Description
<i>ID 203</i>				<i>5491.47</i>	<i>Comment S. Csg.</i>
				<i>3.4760.0001</i>	

41-12

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

\$2814.61

ONLY IF PAID ON OR BEFORE
Feb 26, 2012

Subtotal	8,041.75
Sales Tax	264.33
Total Invoice Amount	8,306.08
Payment/Credit Applied	
TOTAL	8,306.08

OK

Less 2814.61

5491.47

ALLIED CEMENTING CO., LLC. 042401

Federal Tax I.D.# 20-5975804

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

SERVICE POINT:
Great Bend, KS

DATE <u>2-1-12</u>	SEC. <u>11</u>	TWP <u>2</u>	RANGE <u>24</u>	CALLED OUT	ON LOCATION	JOB START <u>8:45 pm</u>	JOB FINISH <u>9:15 pm</u>
LEASE <u>Schulze</u>	WELL # <u>1-11</u>	LOCATION <u>Norton, KS 5 west, 2 east</u>			COUNTY <u>Norton</u>	STATE <u>KS</u>	
OLD OR NEW (Circle one) <u>NEW</u>		<u>North, NW into</u>					

CONTRACTOR <u>Murfin Rig # 21</u>	OWNER <u>Murfin Drilling</u>
TYPE OF JOB <u>Surface 298</u>	CEMENT AMOUNT ORDERED <u>2005x Class A</u>
HOLE SIZE <u>1 7/8</u> T.D. <u>298</u>	CEMENT <u>5% cc</u>
CASING SIZE <u>2 3/8</u> DEPTH	
TUBING SIZE DEPTH	
DRILL PIPE DEPTH	
TOOL DEPTH	
PRES. MAX MINIMUM	
MEAS. LINE SHOE JOINT	
CEMENT LEFT IN CSG.	
PERFS.	
DISPLACEMENT	

COMMON	<u>200</u>	@	<u>16.25</u>	<u>3250.00</u>
POZMIX		@		
GEL		@		
CHLORIDE	<u>7</u>	@	<u>58.20</u>	<u>407.40</u>
ASC		@		
		@		
		@		
		@		
		@		
		@		
		@		
HANDLING	<u>207</u>	@	<u>2.25</u>	<u>465.75</u>
MILEAGE	<u>207 x 80 x .11</u>			<u>1821.00</u>
TOTAL				<u>5944.75</u>

EQUIPMENT

PUMP TRUCK	CEMENTER <u>Greg R</u>
# <u>366</u>	HELPER <u>DUSTIN C</u>
BULK TRUCK	
# <u>292/188</u>	DRIVER <u>Vince S</u>
BULK TRUCK	
#	DRIVER

REMARKS:
Pipe out bottom break circ.
with Raymond Hook of cement
slurry and mix 2005x class A
200cc. stop release plug and
also use with 1 7/8 barrel pipe
Water-shut in - Plug down
to 9:15 pm Cement 515 circ.
Plug down

SERVICE

DEPTH OF JOB	<u>298</u>		
PUMP TRUCK CHARGE			<u>1125.00</u>
EXTRA FOOTAGE		@	
MILEAGE	<u>Hum 80</u>	@	<u>7.00 560.00</u>
MANIFOLD		@	
	<u>Hum 80</u>	@	<u>4.00 320.00</u>
		@	
TOTAL <u>2005.00</u>			

CHARGE TO: Murfin Drilling

STREET _____

CITY _____ STATE _____ ZIP _____

PLUG & FLOAT EQUIPMENT

<u>Wood plug</u>	@	<u>92.00</u>	<u>92.00</u>
	@		
	@		
	@		
	@		
TOTAL <u>92.00</u>			

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

PRINTED NAME X Juan Tinoco

SIGNATURE X Juan Tinoco
Thank You!

SALES TAX (If Any) _____

TOTAL CHARGES 8041.75

DISCOUNT 1608.35 IF PAID IN 30 DAYS



PO Box 93999
Southlake, TX 76092

Voice: (817) 546-7282
Fax: (817) 246-3361

See H acct.

INVOICE

Invoice Number: 130039
Invoice Date: Jan 31, 2012
Page: 1

PROD COPY

Federal Tax I.D.#: 20-8651475

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

OPERATOR PAY MDC

LEASE: Schulze Unit 1-11 / *BN*

Customer ID	Well Name# or Customer P.O.	Payment Terms	
Murfin	Schulze #1-11	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-03	Oakley	Jan 31, 2012	3/1/12

Quantity	Item	Description	Unit Price	Amount
147.00	MAT	Class A Common	16.25	2,388.75
98.00	MAT	Pozmix	8.50	833.00
8.00	MAT	Gel	21.25	170.00
61.00	MAT	Flo Seal	2.70	164.70
256.00	SER	Handling	2.25	576.00
80.00	SER	Mileage 256 sx @.11 per sk per mi	28.16	2,252.80
1.00	SER	Plug to Abandon	1,250.00	1,250.00
80.00	SER	Pump Truck Mileage	7.00	560.00
80.00	SER	Light Vehicle Mileage	4.00	320.00
1.00	EQP	8.5/8 Wooden Plug	92.00	92.00
1.00	CEMENTER	Alan Ryan		
1.00	CEMENTER	Steve Heikkila		
1.00	EQUIP OPER	Wayne Mc Ghgny		
1.00	OPER ASSIST	Chris Helpingstine		
1.00	OPER ASSIST	Ethan Glassman		
		FD203	6201.53	PTA #1-11
		3.7459.0001		

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

\$3012.53

ONLY IF PAID ON OR BEFORE
Feb 25, 2012

Subtotal	8,607.25
Sales Tax	606.81
Total Invoice Amount	9,214.06
Payment/Credit Applied	
TOTAL	9,214.06

OKM *W* *3012.53*
6201.53

ALLIED CEMENTING CO., LLC. 035331

Federal Tax I.D.# 20-5975804

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

SERVICE POINT:

Oakley, Ky

DATE <u>1/21/12</u>	SEC. <u>11</u>	TWP. <u>2</u>	RANGE <u>24</u>	CALLED OUT	ON LOCATION <u>12:30p</u>	JOB START <u>4:15p</u>	JOB FINISH <u>4:30p</u>
LEASE <u>Juby/201</u>	WELL # <u>1-11</u>	LOCATION <u>Norton 6W 5W 1/2 E S100</u>			COUNTY <u>Norton</u>	STATE <u>KY</u>	
OLD OR NEW (Circle one)							

CONTRACTOR MacFin 21

TYPE OF JOB PTA

HOLE SIZE 7 7/8 T.D.

CASING SIZE 8 5/8 DEPTH 297'

TUBING SIZE DEPTH

DRILL PIPE 4 1/2 DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG.

PERFS.

DISPLACEMENT

OWNER Same

CEMENT 245

AMOUNT ORDERED 205 60/90 47 gal

14,000 Seal

COMMON <u>147</u> 105	@ <u>16.25</u>	<u>2388.75</u>
POZMIX <u>98</u> 88	@ <u>8.50</u>	<u>833.00</u>
GEL <u>8</u> 2	@ <u>21.25</u>	<u>170.00</u>
CHLORIDE	@	
ASC	@	
<u>Pleasant</u> <u>611b</u>	@ <u>2.20</u>	<u>164.20</u>
	@	
	@	
	@	
	@	
	@	
	@	
	@	
HANDLING <u>256 SK</u>	@ <u>2.25</u>	<u>576.00</u>
MILEAGE <u>11.9 SK/mile</u>		<u>2252.80</u>
TOTAL		<u>6215.25</u>

REMARKS:

3700 - 25 SK

2075 - 25 SK

1275 - 100 SK

375 - 40 SK

40 - 10 SK

15 SKs Above Hole

30 SKs Not HPL

Thank You

SERVICE

DEPTH OF JOB	<u>3700'</u>	
PUMP TRUCK CHARGE	<u>1250.00</u>	
EXTRA FOOTAGE	@	
MILEAGE <u>80</u>	@ <u>7.00</u>	<u>560.00</u>
MANIFOLD	@	
<u>17 Vehicle</u> <u>80</u>	@ <u>4.00</u>	<u>320.00</u>
	@	
TOTAL		<u>1570.00</u>

CHARGE TO: MacFin Drilling Co

STREET _____

CITY _____ STATE _____ ZIP _____

PLUG & FLOAT EQUIPMENT

<u>8 1/2" Wooden Plug</u>	@	<u>92.00</u>
	@	
	@	
	@	
	@	
TOTAL		<u>92.00</u>

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

SALES TAX (If Any) _____

TOTAL CHARGES _____

DISCOUNT _____ IF PAID IN 30 DAYS

PRINTED NAME Juan Tinoco

SIGNATURE Juan Tinoco