



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1125247
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: _____



1125247

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> _____ <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: _____ _____
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Conservation Division
Finney State Office Building
130 S. Market, Rm. 2078
Wichita, KS 67202-3802



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

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

Sam Brownback, Governor

March 19, 2013

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

Re: ACO1
API 15-063-22061-00-00
Lundgren 2-36
SE/4 Sec.36-14S-30W
Gove 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 Lundgren #2-36 1240' FSL 890' FEL Sec. 36-T14S-R30W 2695' KB							MDCI Lundgren #1-36 1800' FSL 330' FEL Sec. 36-T14S-R30W 2694' KB	
Formation	Sample Top	Datum	Ref	Log tops	Datum	Ref	Log Top	Datum
Anhydrite	2097	+598	Flat	2102	+593	-5	2096	+598
B/Anhydrite	2128	+567	Flat	2132	+563	-4	2127	+567
Topeka	3468	-773	+3	3472	-777	-1	3470	-776
Heebner	3688	-993	+9	3697	-1002	Flat	3696	-1002
Lansing	3725	-1030	+8	3733	-1038	Flat	3732	-1038
Stark	3976	-1281	+5	3979	-1284	+2	3980	-1286
Pawnee	4170	-1475	+1	4178	-1483	-7	4170	-1476
Ft. Scott				4237	-1542	-1	4235	-1541
Johnson	4308	-1613	+2	4309	-1614	+1	4309	-1615
Mississippi	4325	-1630	+6	4338	-1643	-7	4330	-1636
Mississippi Dol.	4350	-1655	+2	4350	-1655	+2	4351	-1657
RTD	4450						4450	
LTD				4456			4448	

Robert D. Hendrix

Petroleum Geologist

GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

COMPANY **Murfin Drilling Co. Inc.**

LEASE **Lundgren #2-36**

FIELD **Lundgren**

LOCATION **1215' 1st & 865' 1st**

SEC **36** TWP **14 S** RGE **30 W**

COUNTY **Gove** STATE **Kansas**

CONTRACTOR **Murfin Drilling Co Inc Rig 2**

SPUD **11/24/2012** COMP **12/3/2012**

RTD **44:50** LTD **44:36**

MUD UP **3:00** TYPE MUD **Chemical**

SAMPLES SAVED FROM **3370'** TO **TD**

DRILLING TIME KEPT FROM **3370'** TO **TD**

SAMPLES EXAMINED FROM **3370'** TO **TD**

GEOLOGICAL SUPERVISION FROM **3370'**

GEOLOGIST ON WELL **Robert D. Hendrix**

ELEVATIONS

KB **2695'**

DF _____

GL **2684'**

Measurers Are All From **Kentley Bushing**

CASING CONDUCTOR _____

CONDUCTOR SURFACE **5:18 @ 290'**

PRODUCTION **5 1/2"**

APR# **15-063-22061**

FORMATION TOPS

ELECTRIC LOG

SAMPLE

Base Anhydrite **2130 (-569)**

Anhydrite **2100 (-595)**

Topokela **3472 (-772)**

Topokela **3468 (-773)**

Lekeener Shale **3692 (-400)**

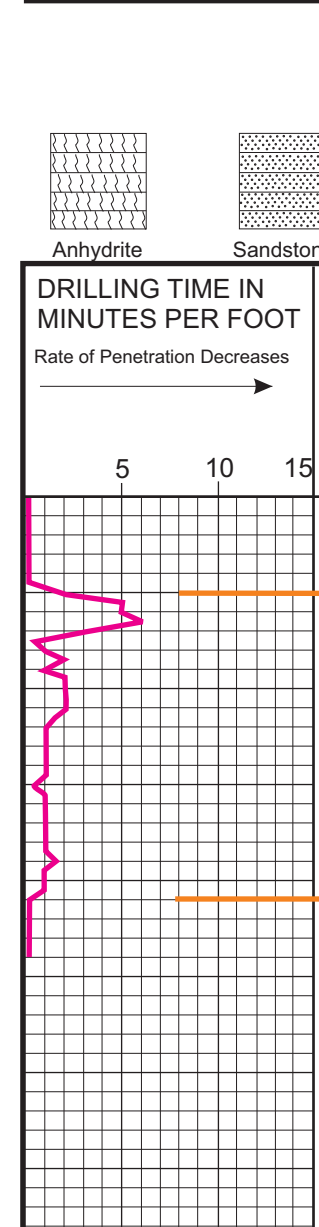
Lekeener Shale **3698 (-403)**

Stark Shale **3723 (-1030)**

Stark Shale **3725 (-1030)**

Heebner Shale **3979 (-1284)**

Heebner Shale **3976 (-1281)**

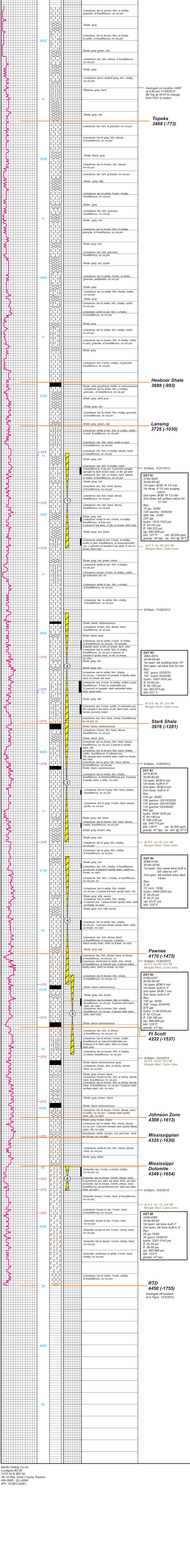
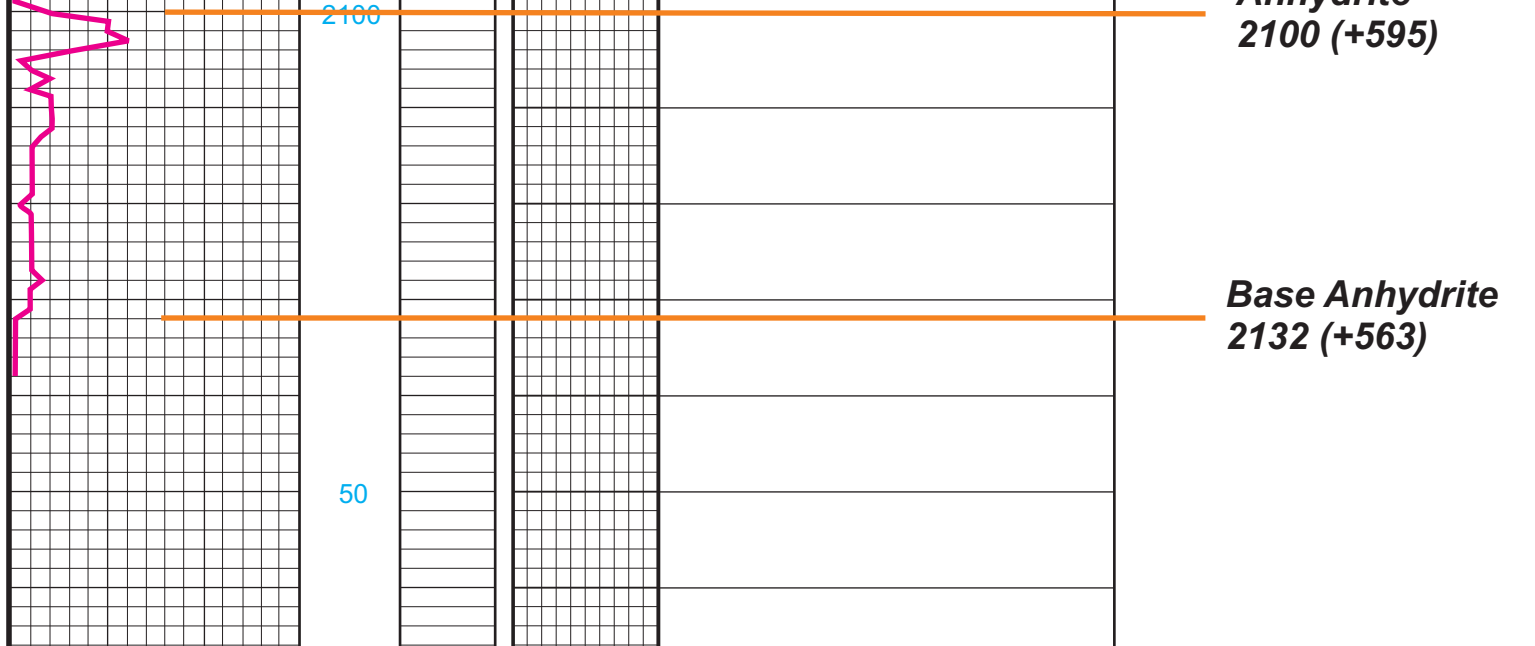


REMARKS:

The multiple positive DST's along with good structural position it is strongly recommended that production casing be set on this well.

Robert D. Hendrix

LEGEND





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co Inc**

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

ATTN: Robert Hendrix

Lundgren #2-36

36-14s-30w Gove,KS

Start Date: 2012.11.27 @ 19:05:15

End Date: 2012.11.28 @ 03:27:45

Job Ticket #: 51652 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.12.04 @ 13:08:18

Murfin Drilling Co Inc
36-14s-30w Gove,KS
Lundgren #2-36
DST # 1
Lansing "B-F"
2012.11.27



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Murfin Drilling Co Inc
 250 N. Water Ste. #300
 Wichita, KS 67202
 ATTN: Robert Hendrix

36-14s-30w Gove, KS
Lundgren #2-36
 Job Ticket: 51652 **DST#: 1**
 Test Start: 2012.11.27 @ 19:05:15

GENERAL INFORMATION:

Formation: **Lansing "B-F"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 21:15:45
 Time Test Ended: 03:27:45
 Interval: **3748.00 ft (KB) To 3828.00 ft (KB) (TVD)**
 Total Depth: 3828.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Dustin Rash
 Unit No: 66
 Reference Elevations: 2695.00 ft (KB)
 2684.00 ft (CF)
 KB to GR/CF: 11.00 ft

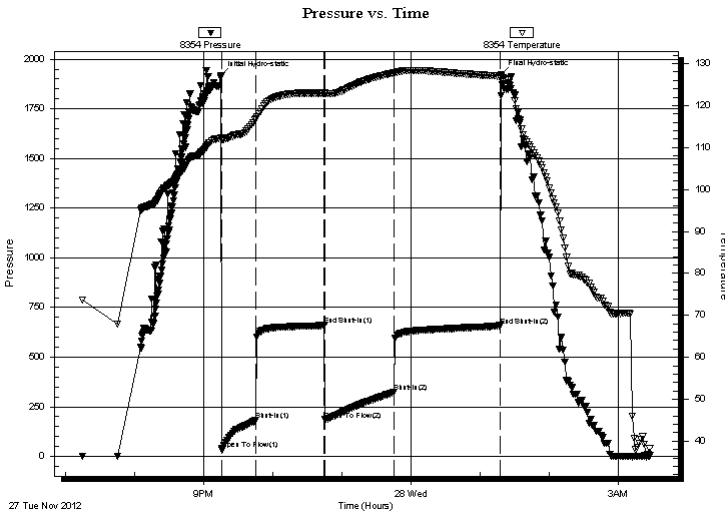
Serial #: 8354

Inside

Press @ Run Depth: 323.04 psig @ 3815.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.11.27 End Date: 2012.11.28 Last Calib.: 2012.11.28
 Start Time: 19:15:15 End Time: 03:27:45 Time On Btm: 2012.11.27 @ 21:15:15
 Time Off Btm: 2012.11.28 @ 01:18:15

TEST COMMENT: IF-Fair building blow . BOB @ 16 1/2 minutes.
 IS- 8 1/2 minutes of surging surface return.
 FF-Fair building blow . BOB @ 16 1/2 minutes.
 FS- Very weak surface return for 22 minutes.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1914.95	112.30	Initial Hydro-static
1	34.00	111.94	Open To Flow (1)
30	181.19	116.73	Shut-In(1)
90	661.86	122.99	End Shut-In(1)
90	184.91	122.87	Open To Flow (2)
150	323.04	127.80	Shut-In(2)
242	658.68	127.04	End Shut-In(2)
243	1922.57	127.06	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
484.00	90%Water/10%Mud	4.67
136.00	10%Oil/50%Water/40%Mud	1.91
15.00	20%Gas/80%Oil	0.21
0.00	225' G.I.P.	0.00

Gas Rates

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



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

Murfin Drilling Co Inc
250 N. Water Ste. #300
Wichita, KS 67202
ATTN: Robert Hendrix

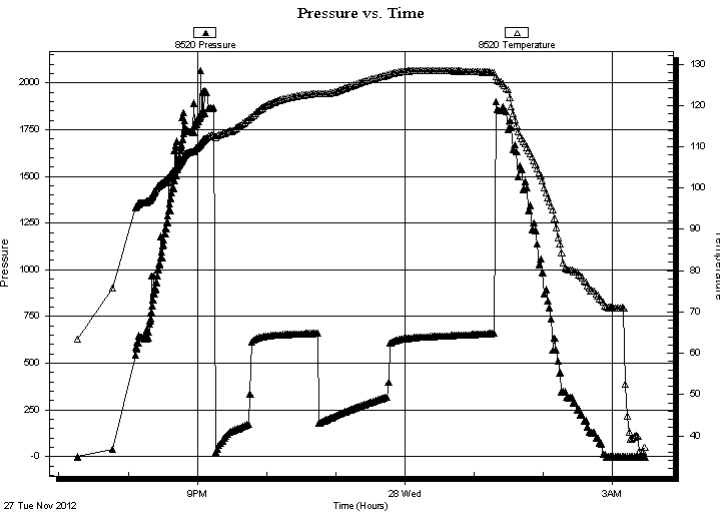
36-14s-30w Gove,KS
Lundgren #2-36
Job Ticket: 51652 **DST#: 1**
Test Start: 2012.11.27 @ 19:05:15

GENERAL INFORMATION:

Formation:	Lansing "B-F"			Test Type:	Conventional Bottom Hole (Initial)
Deviated:	No Whipstock:	ft (KB)		Tester:	Dustin Rash
Time Tool Opened:	21:15:45			Unit No:	66
Time Test Ended:	03:27:45			Reference Elevations:	2695.00 ft (KB) 2684.00 ft (CF)
Interval:	3748.00 ft (KB) To 3828.00 ft (KB) (TVD)			KB to GR/CF:	11.00 ft
Total Depth:	3828.00 ft (KB) (TVD)				
Hole Diameter:	7.88 inches	Hole Condition:	Fair		

Serial #: 8520	Outside			Capacity:	8000.00 psig
Press @ RunDepth:	psig @	3815.00 ft (KB)		Last Calib.:	2012.11.28
Start Date:	2012.11.27	End Date:	2012.11.28	Time On Btm:	
Start Time:	19:16:15	End Time:	03:28:15	Time Off Btm:	

TEST COMMENT: IF-Fair building blow . BOB @ 16 1/2 minutes.
IS- 8 1/2 minutes of surging surface return.
FF-Fair building blow . BOB @ 16 1/2 minutes.
FS- Very weak surface return for 22 minutes.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
484.00	90%Water/10%Mud	4.67
136.00	10%Oil/50%Water/40%Mud	1.91
15.00	20%Gas/80%Oil	0.21
0.00	225' G.I.P.	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co Inc

36-14s-30w Gove,KS

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

Lundgren #2-36

Job Ticket: 51652

DST#: 1

ATTN: Robert Hendrix

Test Start: 2012.11.27 @ 19:05:15

Tool Information

Drill Pipe:	Length: 3507.00 ft	Diameter: 3.80 inches	Volume: 49.19 bbl	Tool Weight: 3000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 24000.00 lb
Drill Collar:	Length: 233.00 ft	Diameter: 2.25 inches	Volume: 1.15 bbl	Weight to Pull Loose: 5000.00 lb
			<u>Total Volume: 50.34 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 62000.00 lb
Depth to Top Packer:	3748.00 ft			Final 66000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	80.00 ft			
Tool Length:	108.00 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			3721.00	
Shut In Tool	5.00			3726.00	
Hydraulic tool	5.00			3731.00	
Jars	5.00			3736.00	
Safety Joint	3.00			3739.00	
Packer	5.00			3744.00	28.00 Bottom Of Top Packer
Packer	4.00			3748.00	
Stubb	1.00			3749.00	
Perforations	2.00			3751.00	
Change Over Sub	1.00			3752.00	
Drill Pipe	62.00			3814.00	
Change Over Sub	1.00			3815.00	
Recorder	0.00	8354	Inside	3815.00	
Recorder	0.00	8520	Outside	3815.00	
Perforations	10.00			3825.00	
Bullnose	3.00			3828.00	80.00 Bottom Packers & Anchor
Total Tool Length:	108.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co Inc

36-14s-30w Gove,KS

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

Lundgren #2-36

Job Ticket: 51652

DST#: 1

ATTN: Robert Hendrix

Test Start: 2012.11.27 @ 19:05:15

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

39 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

28000 ppm

Viscosity: 63.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.17 in³

Gas Cushion Type:

Resistivity: 0.54 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2600.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
484.00	90%Water/10%Mud	4.667
136.00	10%Oil/50%Water/40%Mud	1.908
15.00	20%Gas/80%Oil	0.210
0.00	225' G.I.P.	0.000

Total Length: 635.00 ft

Total Volume: 6.785 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

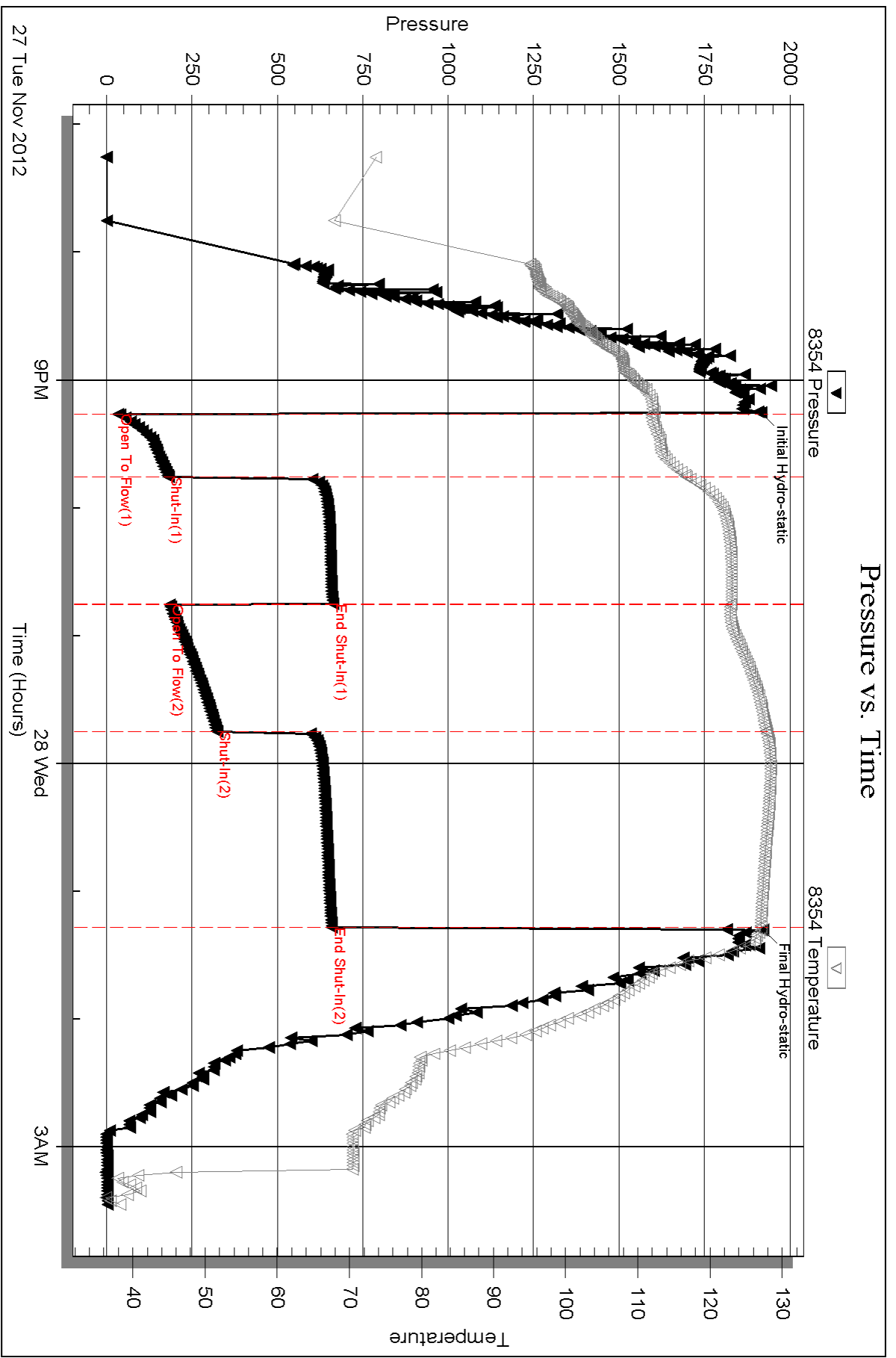
Serial #: 8354

Inside

Murfin Drilling Co Inc

Lundgren #2-36

DST Test Number: 1

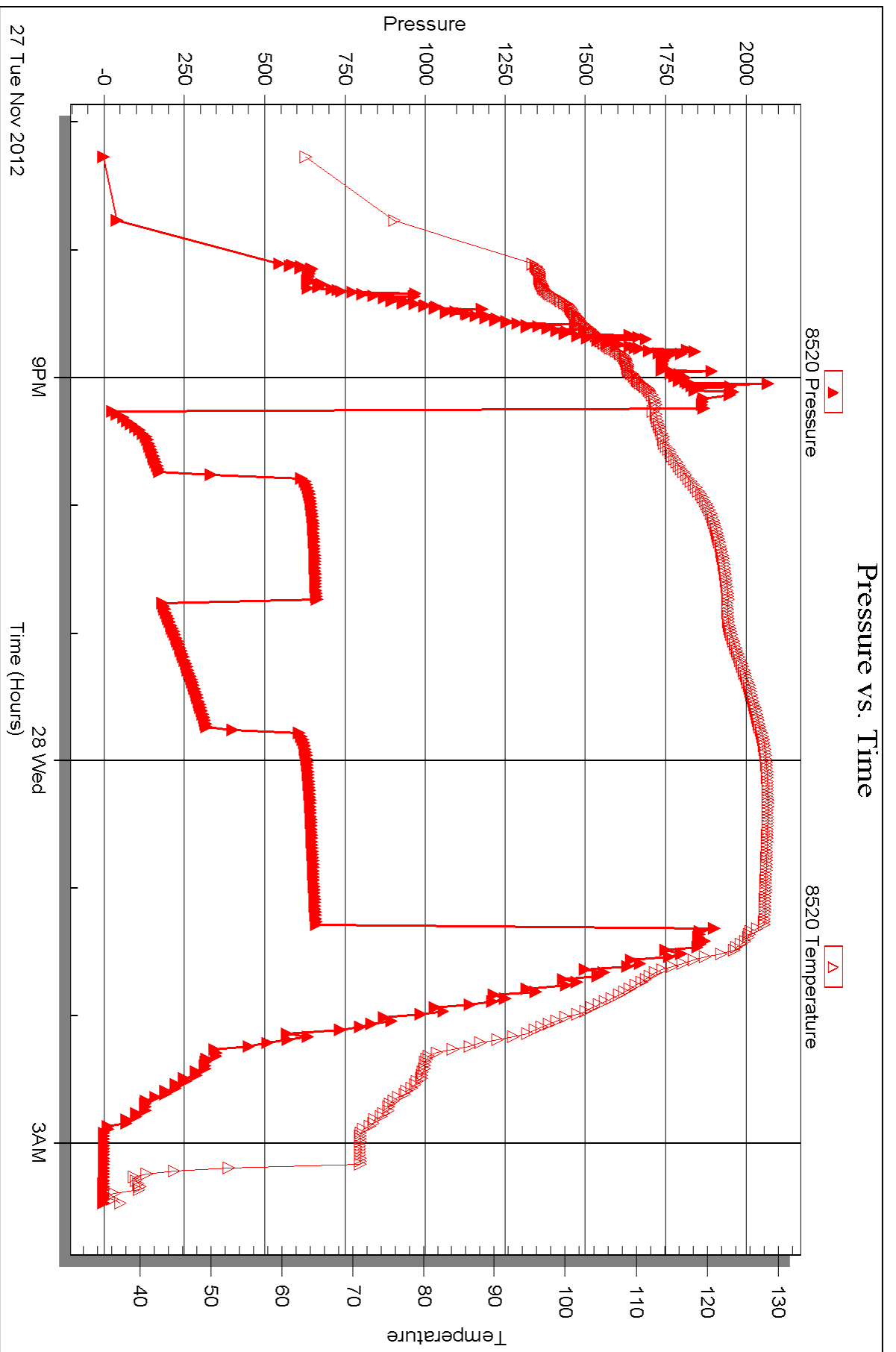


Serial #: 8520

Outside Murfin Drilling Co Inc

Lundgren #2-36

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co Inc**

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

ATTN: Robert Hendrix

Lundgren #2-36

36-14s-30w Gove,KS

Start Date: 2012.11.28 @ 19:18:30

End Date: 2012.11.29 @ 02:44:30

Job Ticket #: 51653 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.12.04 @ 13:06:39

Murfin Drilling Co Inc

36-14s-30w Gove,KS

Lundgren #2-36

DST # 2

Lansing "H,J"

2012.11.28



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Murfin Drilling Co Inc
 250 N. Water Ste. #300
 Wichita, KS 67202
 ATTN: Robert Hendrix

36-14s-30w Gove, KS
Lundgren #2-36
 Job Ticket: 51653 **DST#: 2**
 Test Start: 2012.11.28 @ 19:18:30

GENERAL INFORMATION:

Formation: **Lansing "H,I,J"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 20:58:50
 Time Test Ended: 02:44:30
 Interval: **3883.00 ft (KB) To 3974.00 ft (KB) (TVD)**
 Total Depth: 3974.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Dustin Rash
 Unit No: 66
 Reference Elevations: 2695.00 ft (KB)
 2684.00 ft (CF)
 KB to GR/CF: 11.00 ft

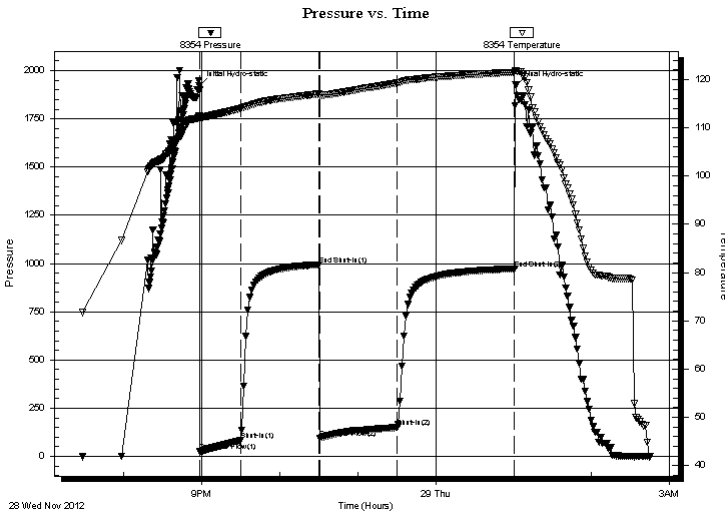
Serial #: 8354

Inside

Press @ Run Depth: 149.70 psig @ 3953.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.11.28 End Date: 2012.11.29 Last Calib.: 2012.11.29
 Start Time: 19:28:30 End Time: 02:44:30 Time On Btm: 2012.11.28 @ 20:58:30
 Time Off Btm: 2012.11.29 @ 01:01:30

TEST COMMENT: IF-Weak building blow . Built to 10 inches.
 IS- No Return.
 FF-Weak building blow . BOB @ 52 minutes.
 FS- No Return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1919.85	112.47	Initial Hydro-static
1	24.44	111.90	Open To Flow (1)
32	82.33	114.03	Shut-In(1)
92	993.46	117.02	End Shut-In(1)
93	94.84	116.81	Open To Flow (2)
152	149.70	119.28	Shut-In(2)
242	972.95	121.51	End Shut-In(2)
243	1924.25	121.90	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
116.00	20%Oil/20%Water/60%Mud	0.57
162.00	10%Gas/20%Oil/70%Mud	1.21

Gas Rates

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



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Murfin Drilling Co Inc
 250 N. Water Ste. #300
 Wichita, KS 67202
 ATTN: Robert Hendrix

36-14s-30w Gove,KS
Lundgren #2-36
 Job Ticket: 51653 **DST#: 2**
 Test Start: 2012.11.28 @ 19:18:30

GENERAL INFORMATION:

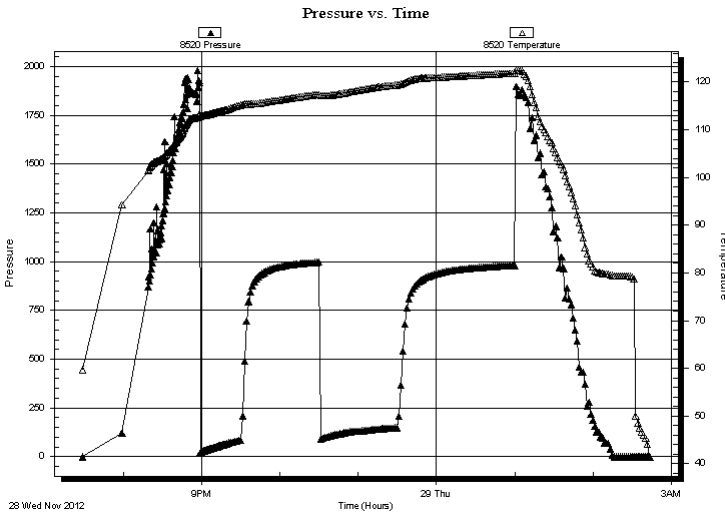
Formation: Lansing "H,I,J"	Test Type: Conventional Bottom Hole (Initial)
Deviated: No Whipstock: ft (KB)	Tester: Dustin Rash
Time Tool Opened: 20:58:50	Unit No: 66
Time Test Ended: 02:44:30	
Interval: 3883.00 ft (KB) To 3974.00 ft (KB) (TVD)	Reference Elevations: 2695.00 ft (KB)
Total Depth: 3974.00 ft (KB) (TVD)	2684.00 ft (CF)
Hole Diameter: 7.88 inches	Hole Condition: Fair
	KB to GR/CF: 11.00 ft

Serial #: 8520 **Outside**

Press @RunDepth: psig @ 3953.00 ft (KB)	Capacity: 8000.00 psig
Start Date: 2012.11.28	End Date: 2012.11.29
Start Time: 19:28:50	End Time: 02:44:20
	Last Calib.: 2012.11.29
	Time On Btm:
	Time Off Btm:

TEST COMMENT: IF-Weak building blow . Built to 10 inches.
 IS- No Return.
 FF-Weak building blow . BOB @ 52 minutes.
 FS- No Return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Gas Rates

Length (ft)	Description	Volume (bbl)
116.00	20%Oil/20%Water/60%Mud	0.57
162.00	10%Gas/20%Oil/70%Mud	1.21

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co Inc

36-14s-30w Gove,KS

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

Lundgren #2-36

Job Ticket: 51653

DST#: 2

ATTN: Robert Hendrix

Test Start: 2012.11.28 @ 19:18:30

Tool Information

Drill Pipe:	Length: 3639.00 ft	Diameter: 3.80 inches	Volume: 51.05 bbl	Tool Weight:	3000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer:	24000.00 lb
Drill Collar:	Length: 233.00 ft	Diameter: 2.25 inches	Volume: 1.15 bbl	Weight to Pull Loose:	5000.00 lb
			<u>Total Volume: 52.20 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	9.00 ft			String Weight: Initial	66000.00 lb
Depth to Top Packer:	3883.00 ft			Final	68000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	91.00 ft				
Tool Length:	111.00 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			3864.00	
Shut In Tool	5.00			3869.00	
Hydraulic tool	5.00			3874.00	
Packer	5.00			3879.00	20.00 Bottom Of Top Packer
Packer	4.00			3883.00	
Stubb	1.00			3884.00	
Perforations	5.00			3889.00	
Change Over Sub	1.00			3890.00	
Drill Pipe	62.00			3952.00	
Change Over Sub	1.00			3953.00	
Recorder	0.00	8354	Inside	3953.00	
Recorder	0.00	8520	Outside	3953.00	
Perforations	18.00			3971.00	
Bullnose	3.00			3974.00	91.00 Bottom Packers & Anchor

Total Tool Length: 111.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co Inc

36-14s-30w Gove,KS

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

Lundgren #2-36

Job Ticket: 51653

DST#: 2

ATTN: Robert Hendrix

Test Start: 2012.11.28 @ 19:18:30

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: 81.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.98 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1800.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
116.00	20%Oil/20%Water/60%Mud	0.570
162.00	10%Gas/20%Oil/70%Mud	1.207

Total Length: 278.00 ft

Total Volume: 1.777 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

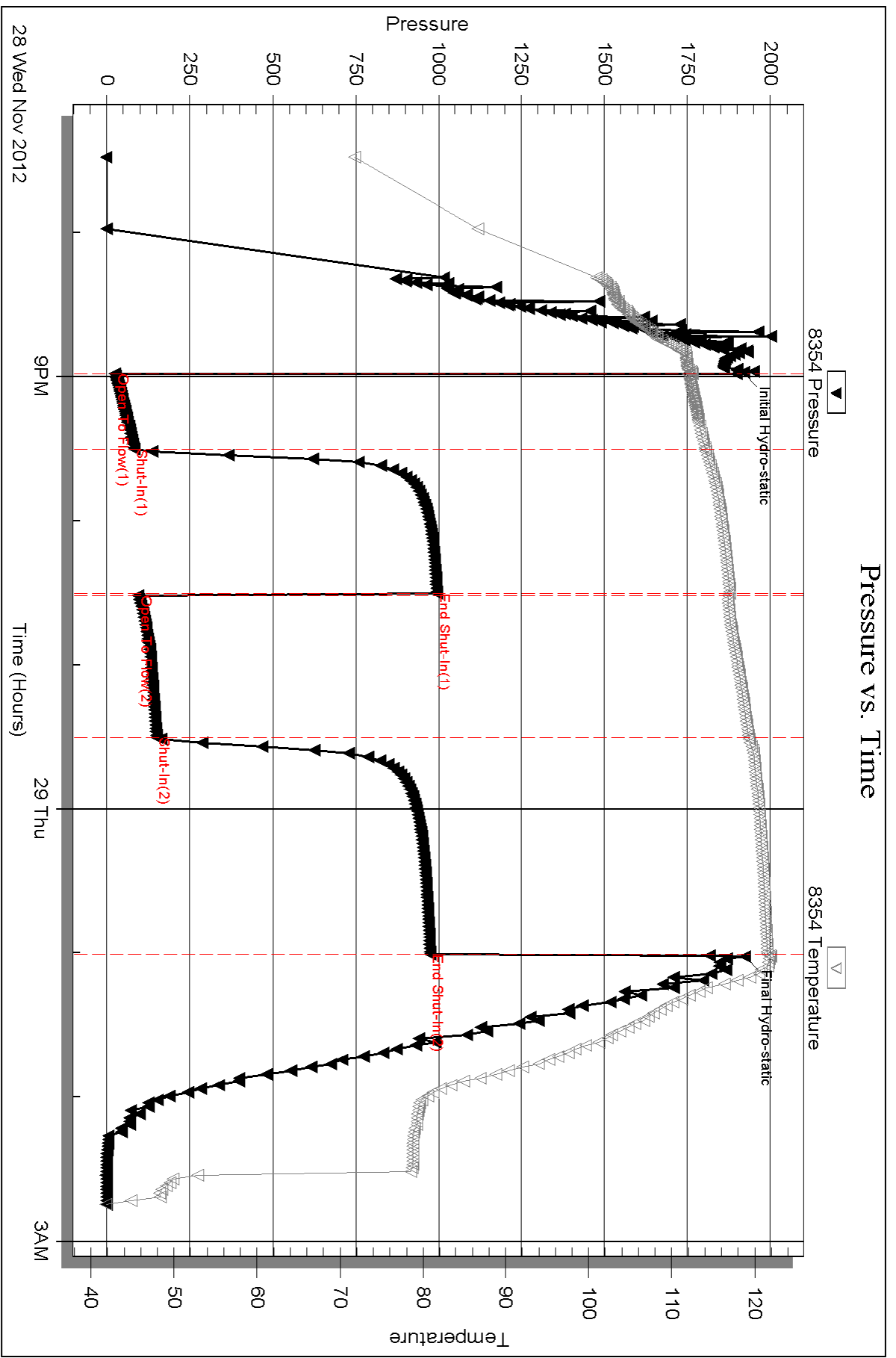
Serial #: 8354

Inside

Murfin Drilling Co Inc

Lundgren #2-36

DST Test Number: 2



Triobite Testing, Inc

Ref. No: 51653

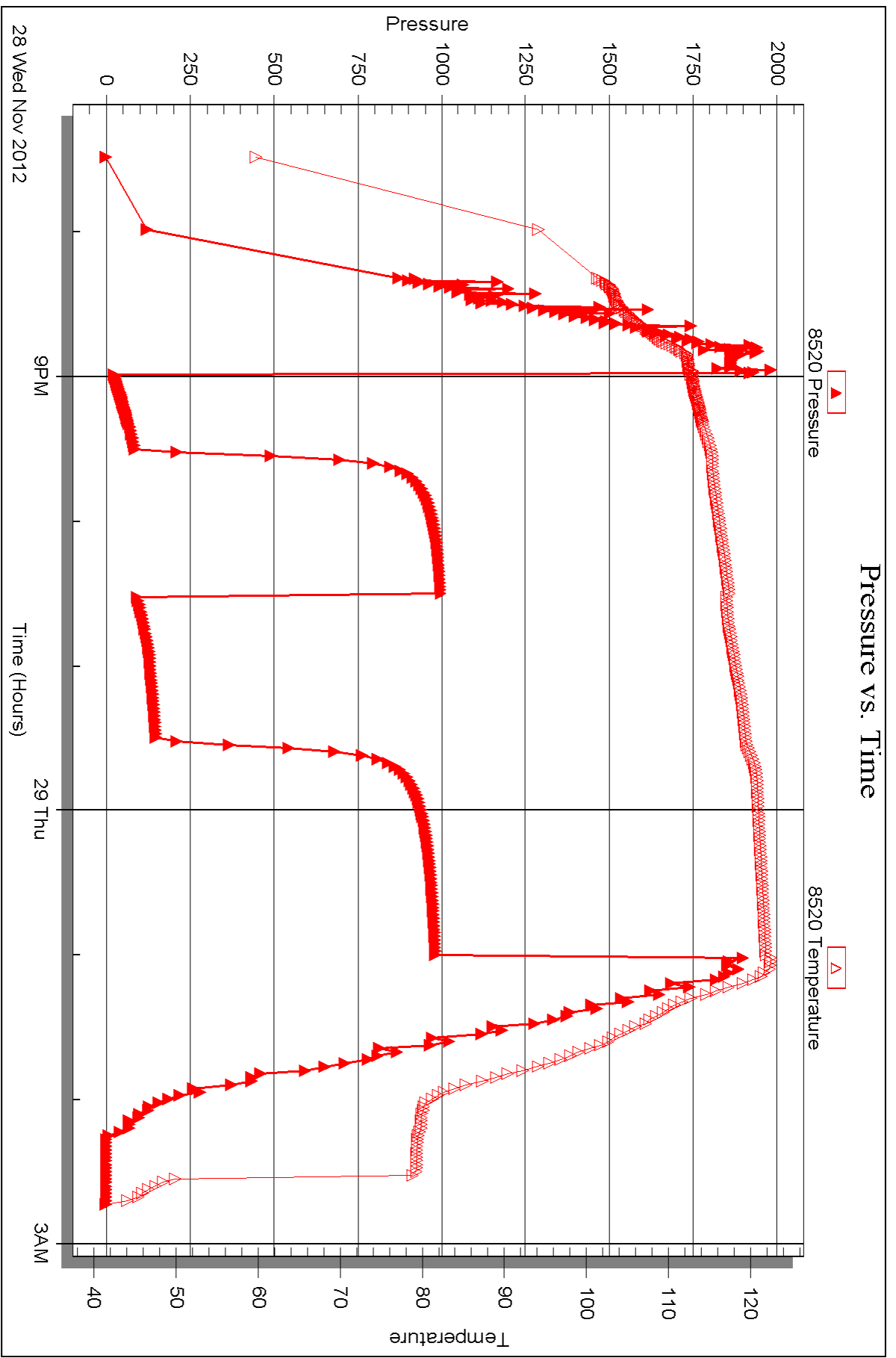
Printed: 2012.12.04 @ 13:06:43

Serial #: 8520

Outside Murfin Drilling Co Inc

Lundgren #2-36

DST Test Number: 2





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co Inc**

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

ATTN: Robert Hendrix

Lundgren #2-36

36-14s-30w Gove,KS

Start Date: 2012.11.29 @ 14:30:30

End Date: 2012.11.29 @ 22:32:30

Job Ticket #: 51654 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.12.04 @ 13:05:55

Murfin Drilling Co Inc
36-14s-30w Gove,KS
Lundgren #2-36
DST # 3
Lansing "K-L"
2012.11.29



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Murfin Drilling Co Inc
 250 N. Water Ste. #300
 Wichita, KS 67202
 ATTN: Robert Hendrix

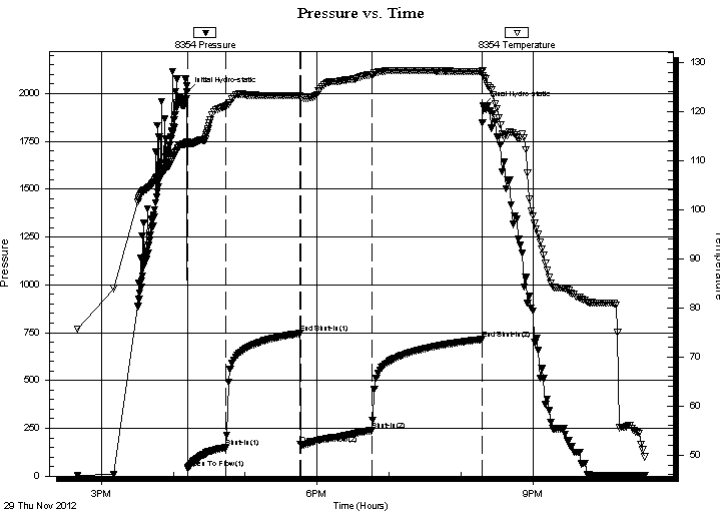
36-14s-30w Gove, KS
Lundgren #2-36
 Job Ticket: 51654 **DST#: 3**
 Test Start: 2012.11.29 @ 14:30:30

GENERAL INFORMATION:

Formation: **Lansing "K-L"**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 16:12:10 Tester: Dustin Rash
 Time Test Ended: 22:32:30 Unit No: 66
 Interval: **3975.00 ft (KB) To 4076.00 ft (KB) (TVD)** Reference Elevations: 2695.00 ft (KB)
 Total Depth: 4076.00 ft (KB) (TVD) 2684.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 11.00 ft

Serial #: 8354 Inside
 Press @ Run Depth: 238.38 psig @ 4045.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.11.29 End Date: 2012.11.29 Last Calib.: 2012.11.29
 Start Time: 14:40:30 End Time: 22:32:30 Time On Btm: 2012.11.29 @ 16:11:50
 Time Off Btm: 2012.11.29 @ 20:18:00

TEST COMMENT: IF-Strong building blow . BOB in 8 minutes.
 ISI-Return @ 30 seconds. Built to 4 inches.
 FF-Strong building blow . BOB in 8 minutes.
 FSI-Return @ 30 seconds. Built to 9 inches.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2008.28	113.80	Initial Hydro-static
1	39.85	113.28	Open To Flow (1)
33	148.60	121.10	Shut-In(1)
94	745.92	123.28	End Shut-In(1)
95	165.97	123.03	Open To Flow (2)
154	238.38	127.52	Shut-In(2)
246	714.89	128.13	End Shut-In(2)
247	1937.98	127.36	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
116.00	15%Gas/5%Oil/40%Water/40%Mud	0.57
116.00	20%Gas/10%Oil/10%Water/60%Mud	0.57
156.00	20%Gas/50%Oil/10%Water/20%Mud	2.18
126.00	40%Gas/60%Oil	1.77
0.00	660' G.I.P.	0.00

Gas Rates

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



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Murfin Drilling Co Inc
 250 N. Water Ste. #300
 Wichita, KS 67202
 ATTN: Robert Hendrix

36-14s-30w Gove, KS
Lundgren #2-36
 Job Ticket: 51654 **DST#: 3**
 Test Start: 2012.11.29 @ 14:30:30

GENERAL INFORMATION:

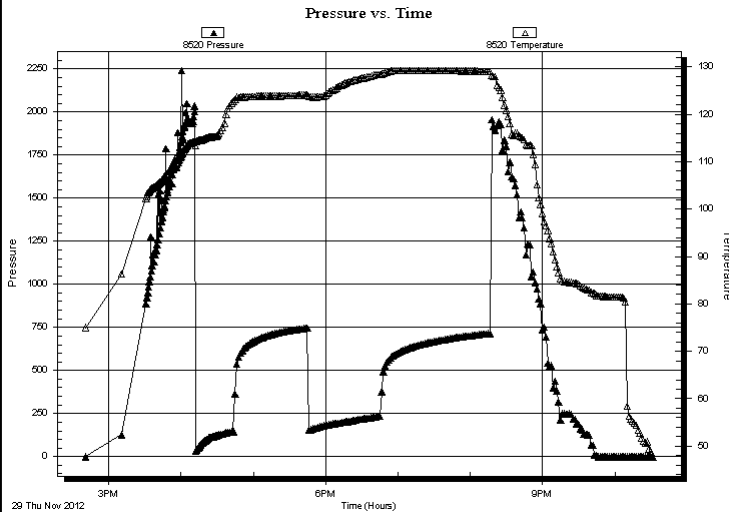
Formation: **Lansing "K-L"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 16:12:10
 Time Test Ended: 22:32:30
Interval: 3975.00 ft (KB) To 4076.00 ft (KB) (TVD)
 Total Depth: 4076.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole (Initial)
 Tester: Dustin Rash
 Unit No: 66
 Reference Elevations: 2695.00 ft (KB)
 2684.00 ft (CF)
 KB to GR/CF: 11.00 ft

Serial #: 8520 Outside

Press @ Run Depth: psig @ 4045.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.11.29 End Date: 2012.11.29 Last Calib.: 2012.11.29
 Start Time: 14:40:50 End Time: 22:32:20 Time On Btm:
 Time Off Btm:

TEST COMMENT: IF-Strong building blow . BOB in 8 minutes.
 ISI-Return @ 30 seconds. Built to 4 inches.
 FF-Strong building blow . BOB in 8 minutes.
 FSI-Return @ 30 seconds. Built to 9 inches.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
116.00	15%Gas/5%Oil/40%Water/40%Mud	0.57
116.00	20%Gas/10%Oil/10%Water/60%Mud	0.57
156.00	20%Gas/50%Oil/10%Water/20%Mud	2.18
126.00	40%Gas/60%Oil	1.77
0.00	660' G.I.P.	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co Inc

36-14s-30w Gove,KS

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

Lundgren #2-36

Job Ticket: 51654

DST#: 3

ATTN: Robert Hendrix

Test Start: 2012.11.29 @ 14:30:30

Tool Information

Drill Pipe:	Length: 3729.00 ft	Diameter: 3.80 inches	Volume: 52.31 bbl	Tool Weight: 3000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 24000.00 lb
Drill Collar:	Length: 233.00 ft	Diameter: 2.25 inches	Volume: 1.15 bbl	Weight to Pull Loose: 5000.00 lb
			<u>Total Volume: 53.46 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 66000.00 lb
Depth to Top Packer:	3975.00 ft			Final 68000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	101.00 ft			
Tool Length:	129.00 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			3948.00	
Shut In Tool	5.00			3953.00	
Hydraulic tool	5.00			3958.00	
Jars	5.00			3963.00	
Safety Joint	3.00			3966.00	
Packer	5.00			3971.00	28.00 Bottom Of Top Packer
Packer	4.00			3975.00	
Stubb	1.00			3976.00	
Perforations	5.00			3981.00	
Change Over Sub	1.00			3982.00	
Drill Pipe	62.00			4044.00	
Change Over Sub	1.00			4045.00	
Recorder	0.00	8354	Inside	4045.00	
Recorder	0.00	8520	Outside	4045.00	
Perforations	28.00			4073.00	
Bullnose	3.00			4076.00	101.00 Bottom Packers & Anchor
Total Tool Length:	129.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co Inc

36-14s-30w Gove,KS

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

Lundgren #2-36

Job Ticket: 51654

DST#: 3

ATTN: Robert Hendrix

Test Start: 2012.11.29 @ 14:30:30

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

41 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

30500 ppm

Viscosity: 81.00 sec/qt

Cushion Volume:

bbf

Water Loss: 5.98 in³

Gas Cushion Type:

Resistivity: 0.44 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1800.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
116.00	15%Gas/5%Oil/40%Water/40%Mud	0.570
116.00	20%Gas/10%Oil/10%Water/60%Mud	0.570
156.00	20%Gas/50%Oil/10%Water/20%Mud	2.179
126.00	40%Gas/60%Oil	1.767
0.00	660' G.I.P.	0.000

Total Length: 514.00 ft

Total Volume: 5.086 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

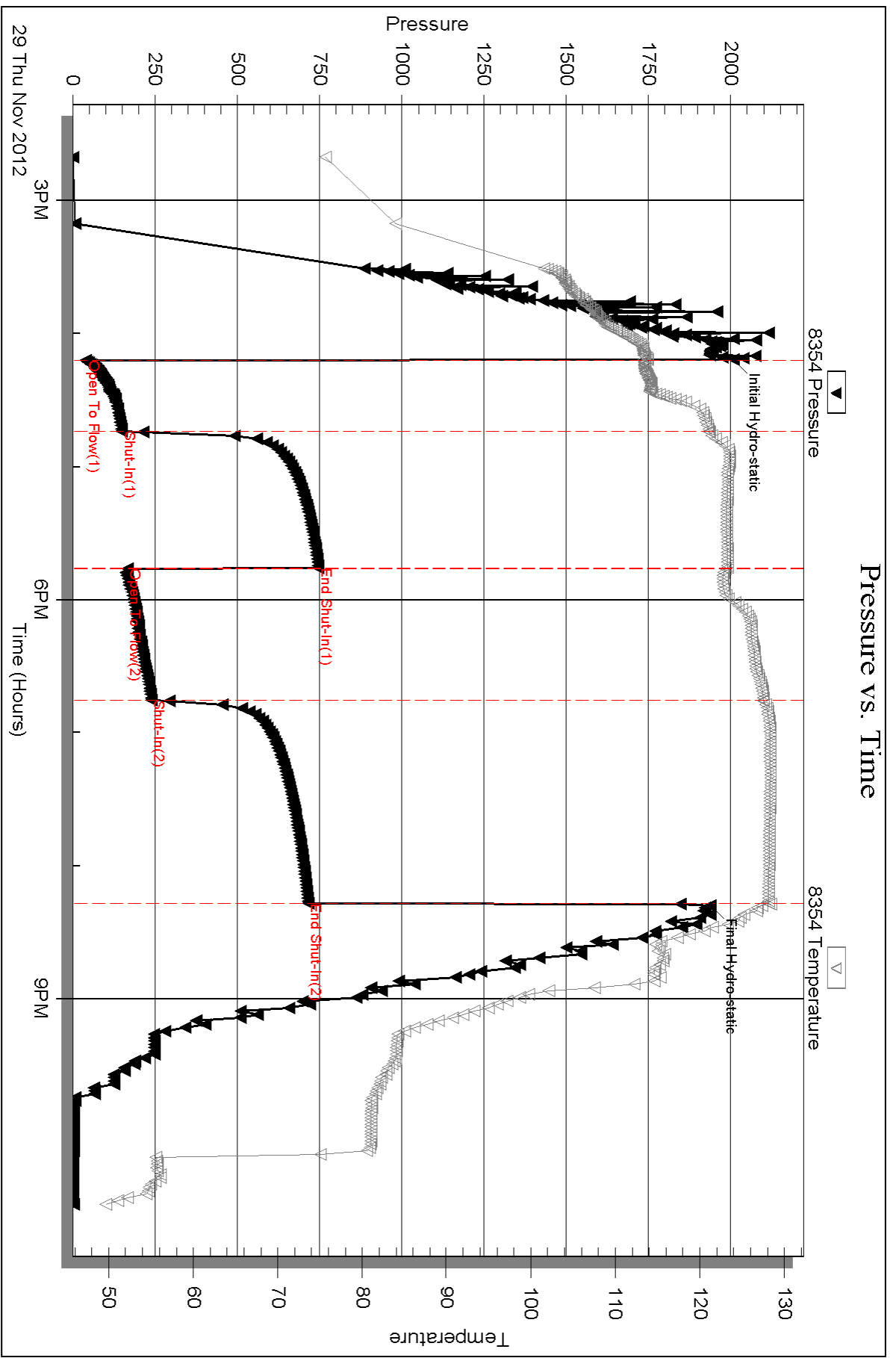
Serial #: 8354

Inside

Murfin Drilling Co Inc

Lundgren #2-36

DST Test Number: 3



Triobite Testing, Inc

Ref. No: 51654

Printed: 2012.12.04 @ 13:06:00

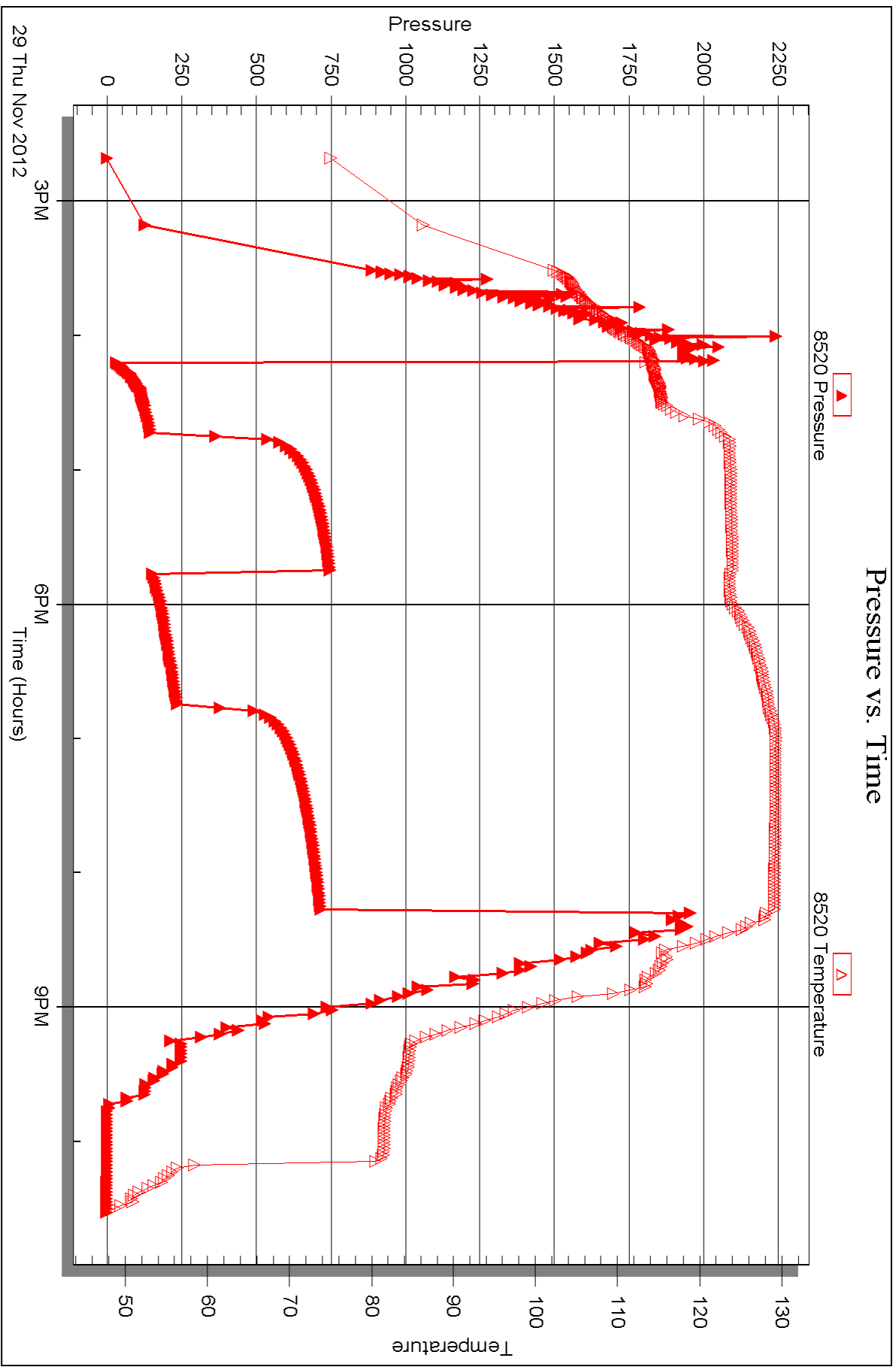
Serial #: 8520

Outside

Murfin Drilling Co Inc

Lundgren #2-36

DST Test Number: 3





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co Inc**

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

ATTN: Robert Hendrix

Lundgren #2-36

36-14s-30w Gove,KS

Start Date: 2012.11.29 @ 14:30:30

End Date: 2012.11.29 @ 22:32:30

Job Ticket #: 51654 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.12.04 @ 13:05:55



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Co Inc
250 N. Water Ste. #300
Wichita, KS 67202
ATTN: Robert Hendrix

36-14s-30w Gove, KS
Lundgren #2-36
Job Ticket: 51654 **DST#: 3**
Test Start: 2012.11.29 @ 14:30:30

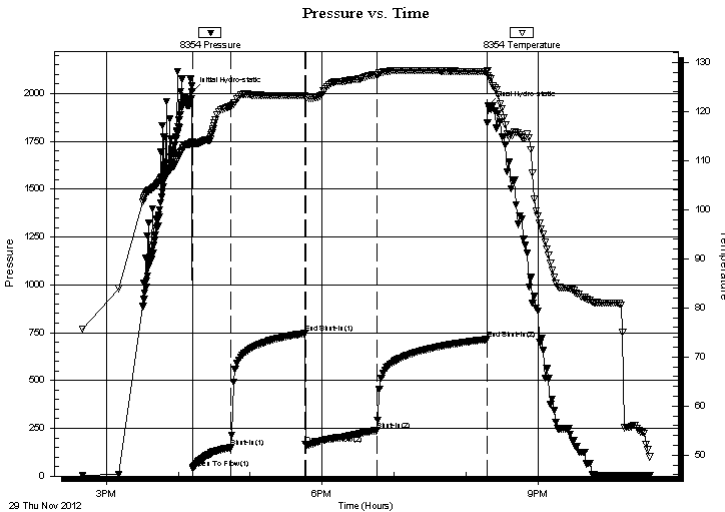
GENERAL INFORMATION:

Formation: **Lansing "K-L"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 16:12:10
Time Test Ended: 22:32:30
Interval: **3975.00 ft (KB) To 4076.00 ft (KB) (TVD)**
Total Depth: 4076.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole (Initial)
Tester: Dustin Rash
Unit No: 66
Reference Elevations: 2695.00 ft (KB)
2684.00 ft (CF)
KB to GR/CF: 11.00 ft

Serial #: 8354 Inside
Press @ Run Depth: 238.38 psig @ 4045.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2012.11.29 End Date: 2012.11.29 Last Calib.: 2012.11.29
Start Time: 14:40:30 End Time: 22:32:30 Time On Btm: 2012.11.29 @ 16:11:50
Time Off Btm: 2012.11.29 @ 20:18:00

TEST COMMENT: IF-Strong building blow . BOB in 8 minutes.
ISI-Return @ 30 seconds. Built to 4 inches.
FF-Strong building blow . BOB in 8 minutes.
FSI-Return @ 30 seconds. Built to 9 inches.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2008.28	113.80	Initial Hydro-static
1	39.85	113.28	Open To Flow (1)
33	148.60	121.10	Shut-In(1)
94	745.92	123.28	End Shut-In(1)
95	165.97	123.03	Open To Flow (2)
154	238.38	127.52	Shut-In(2)
246	714.89	128.13	End Shut-In(2)
247	1937.98	127.36	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
116.00	15%Gas/5%Oil/40%Water/40%Mud	0.57
116.00	20%Gas/10%Oil/10%Water/60%Mud	0.57
156.00	20%Gas/50%Oil/10%Water/20%Mud	2.18
126.00	40%Gas/60%Oil	1.77
0.00	660' G.I.P.	0.00

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
ATTN: Robert Hendrix

36-14s-30w Gove, KS
Lundgren #2-36
Job Ticket: 51654 **DST#: 3**
Test Start: 2012.11.29 @ 14:30:30

Tool Information

Drill Pipe:	Length: 3729.00 ft	Diameter: 3.80 inches	Volume: 52.31 bbl	Tool Weight: 3000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 24000.00 lb
Drill Collar:	Length: 233.00 ft	Diameter: 2.25 inches	Volume: 1.15 bbl	Weight to Pull Loose: 5000.00 lb
			<u>Total Volume: 53.46 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 66000.00 lb
Depth to Top Packer:	3975.00 ft			Final 68000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	101.00 ft			
Tool Length:	129.00 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			3948.00	
Shut In Tool	5.00			3953.00	
Hydraulic tool	5.00			3958.00	
Jars	5.00			3963.00	
Safety Joint	3.00			3966.00	
Packer	5.00			3971.00	28.00 Bottom Of Top Packer
Packer	4.00			3975.00	
Stubb	1.00			3976.00	
Perforations	5.00			3981.00	
Change Over Sub	1.00			3982.00	
Drill Pipe	62.00			4044.00	
Change Over Sub	1.00			4045.00	
Recorder	0.00	8354	Inside	4045.00	
Recorder	0.00	8520	Outside	4045.00	
Perforations	28.00			4073.00	
Bullnose	3.00			4076.00	101.00 Bottom Packers & Anchor
Total Tool Length:	129.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co Inc

36-14s-30w Gove,KS

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

Lundgren #2-36

Job Ticket: 51654

DST#: 3

ATTN: Robert Hendrix

Test Start: 2012.11.29 @ 14:30:30

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

41 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

30500 ppm

Viscosity: 81.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.98 in³

Gas Cushion Type:

Resistivity: 0.44 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1800.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
116.00	15%Gas/5%Oil/40%Water/40%Mud	0.570
116.00	20%Gas/10%Oil/10%Water/60%Mud	0.570
156.00	20%Gas/50%Oil/10%Water/20%Mud	2.179
126.00	40%Gas/60%Oil	1.767
0.00	660' G.I.P.	0.000

Total Length: 514.00 ft

Total Volume: 5.086 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

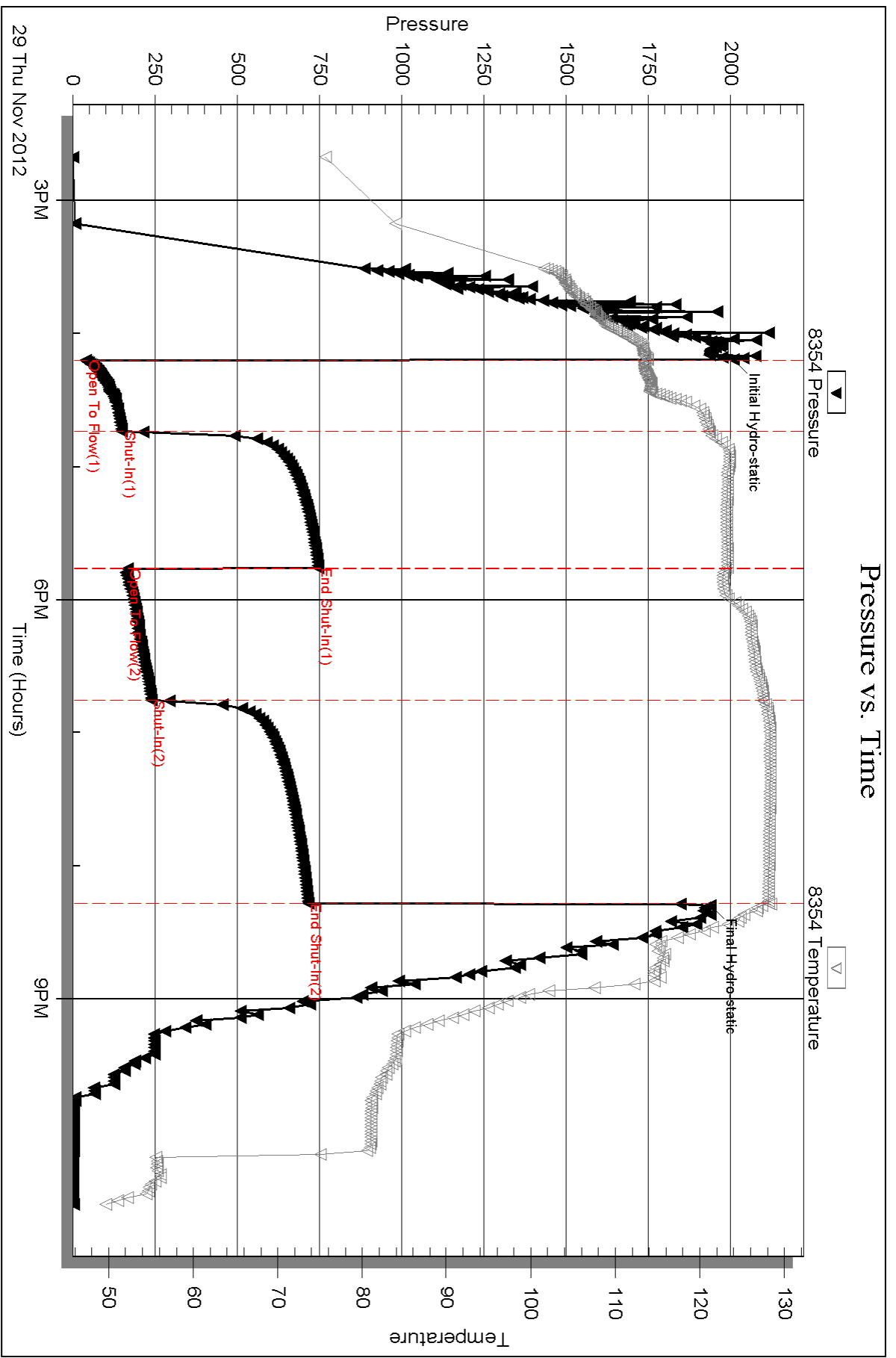
Serial #: 8354

Inside

Murfin Drilling Co Inc

Lundgren #2-36

DST Test Number: 3



Triobite Testing, Inc

Ref. No: 51654

Printed: 2012.12.04 @ 13:06:00

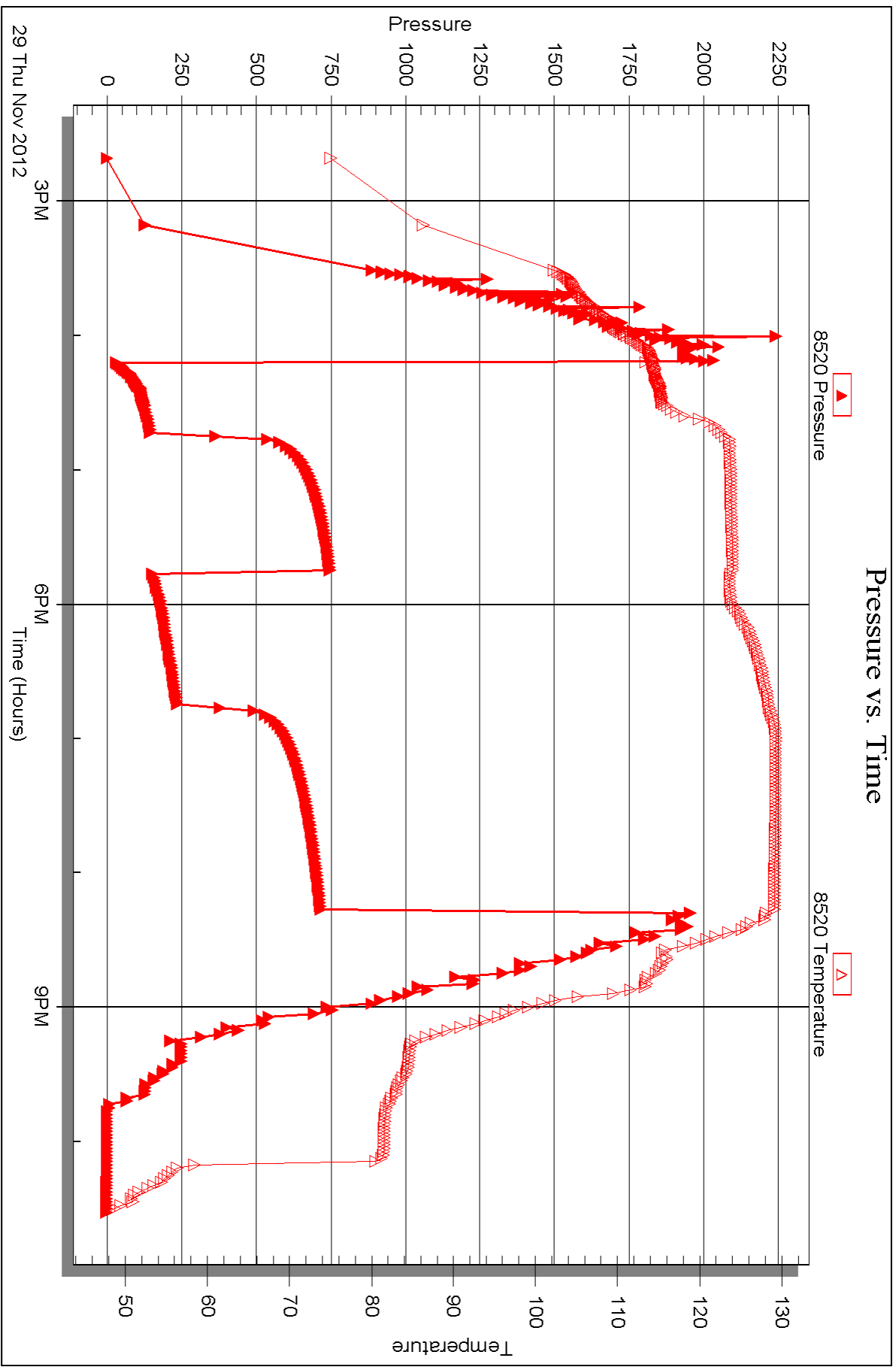
Serial #: 8520

Outside

Murfin Drilling Co Inc

Lundgren #2-36

DST Test Number: 3





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co Inc**

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

ATTN: Robert Hendrix

Lundgren #2-36

36-14s-30w Gove,KS

Start Date: 2012.12.01 @ 04:54:30

End Date: 2012.12.01 @ 13:04:30

Job Ticket #: 51656 DST #: 5

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.12.04 @ 13:03:40



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Murfin Drilling Co Inc
 250 N. Water Ste. #300
 Wichita, KS 67202
 ATTN: Robert Hendrix

36-14s-30w Gove, KS
Lundgren #2-36
 Job Ticket: 51656 **DST#: 5**
 Test Start: 2012.12.01 @ 04:54:30

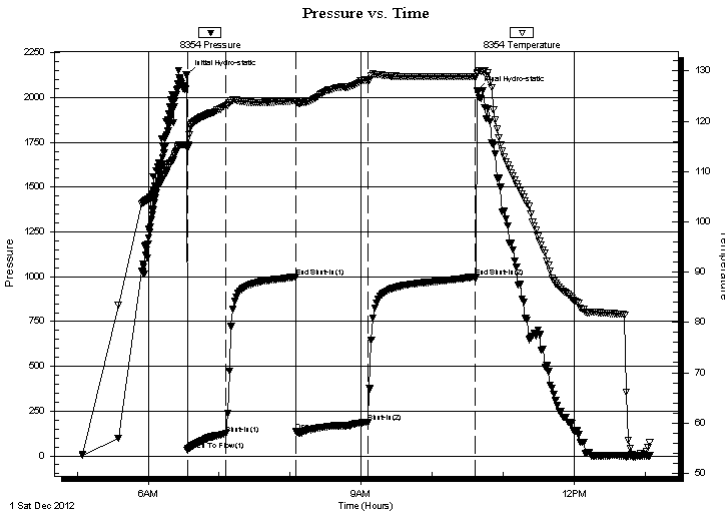
GENERAL INFORMATION:

Formation: **Lower Pawnee-Ft. Sco**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 06:33:00
 Time Test Ended: 13:04:30
 Interval: **4188.00 ft (KB) To 4257.00 ft (KB) (TVD)**
 Total Depth: 4257.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Dustin Rash
 Unit No: 66
 Reference Elevations: 2695.00 ft (KB)
 2684.00 ft (CF)
 KB to GR/CF: 11.00 ft

Serial #: 8354 Inside
 Press @ RunDepth: 185.55 psig @ 4227.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.12.01 End Date: 2012.12.01 Last Calib.: 2012.12.01
 Start Time: 05:04:30 End Time: 13:04:30 Time On Btm: 2012.12.01 @ 06:32:50
 Time Off Btm: 2012.12.01 @ 10:38:00

TEST COMMENT: IF-Strong building blow . BOB @ 6 minutes.
 ISI-Return @ 30 seconds. Built to 3 inches.
 FF-Strong building blow . BOB @ 7 minutes.
 FSI-Return @ 30 seconds. Built 8 inches.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2128.50	115.35	Initial Hydro-static
1	32.33	114.51	Open To Flow (1)
33	123.03	122.98	Shut-In(1)
92	998.61	124.11	End Shut-In(1)
93	137.76	123.82	Open To Flow (2)
153	185.55	128.02	Shut-In(2)
244	999.29	128.92	End Shut-In(2)
246	2038.71	129.43	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
326.00	40%Gas/40%Oil/20%Mud	2.45
126.00	50%Gas/50%Oil	1.77
0.00	975' G.I.P.	0.00

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
ATTN: Robert Hendrix

36-14s-30w Gove,KS
Lundgren #2-36
Job Ticket: 51656 **DST#: 5**
Test Start: 2012.12.01 @ 04:54:30

Tool Information

Drill Pipe:	Length: 3946.00 ft	Diameter: 3.80 inches	Volume: 55.35 bbl	Tool Weight: 3000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 24000.00 lb
Drill Collar:	Length: 233.00 ft	Diameter: 2.25 inches	Volume: 1.15 bbl	Weight to Pull Loose: 10000.00 lb
			<u>Total Volume: 56.50 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	19.00 ft			String Weight: Initial 66000.00 lb
Depth to Top Packer:	4188.00 ft			Final 68000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	69.00 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			4161.00	
Shut In Tool	5.00			4166.00	
Hydraulic tool	5.00			4171.00	
Jars	5.00			4176.00	
Safety Joint	3.00			4179.00	
Packer	5.00			4184.00	28.00 Bottom Of Top Packer
Packer	4.00			4188.00	
Stubb	1.00			4189.00	
Perforations	5.00			4194.00	
Change Over Sub	1.00			4195.00	
Drill Pipe	31.00			4226.00	
Change Over Sub	1.00			4227.00	
Recorder	0.00	8354	Inside	4227.00	
Recorder	0.00	8520	Outside	4227.00	
Perforations	27.00			4254.00	
Bullnose	3.00			4257.00	69.00 Bottom Packers & Anchor
Total Tool Length:	97.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co Inc

36-14s-30w Gove,KS

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

Lundgren #2-36

Job Ticket: 51656

DST#: 5

ATTN: Robert Hendrix

Test Start: 2012.12.01 @ 04:54:30

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

41 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 62.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3100.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
326.00	40%Gas/40%Oil/20%Mud	2.450
126.00	50%Gas/50%Oil	1.767
0.00	975' G.I.P.	0.000

Total Length: 452.00 ft

Total Volume: 4.217 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

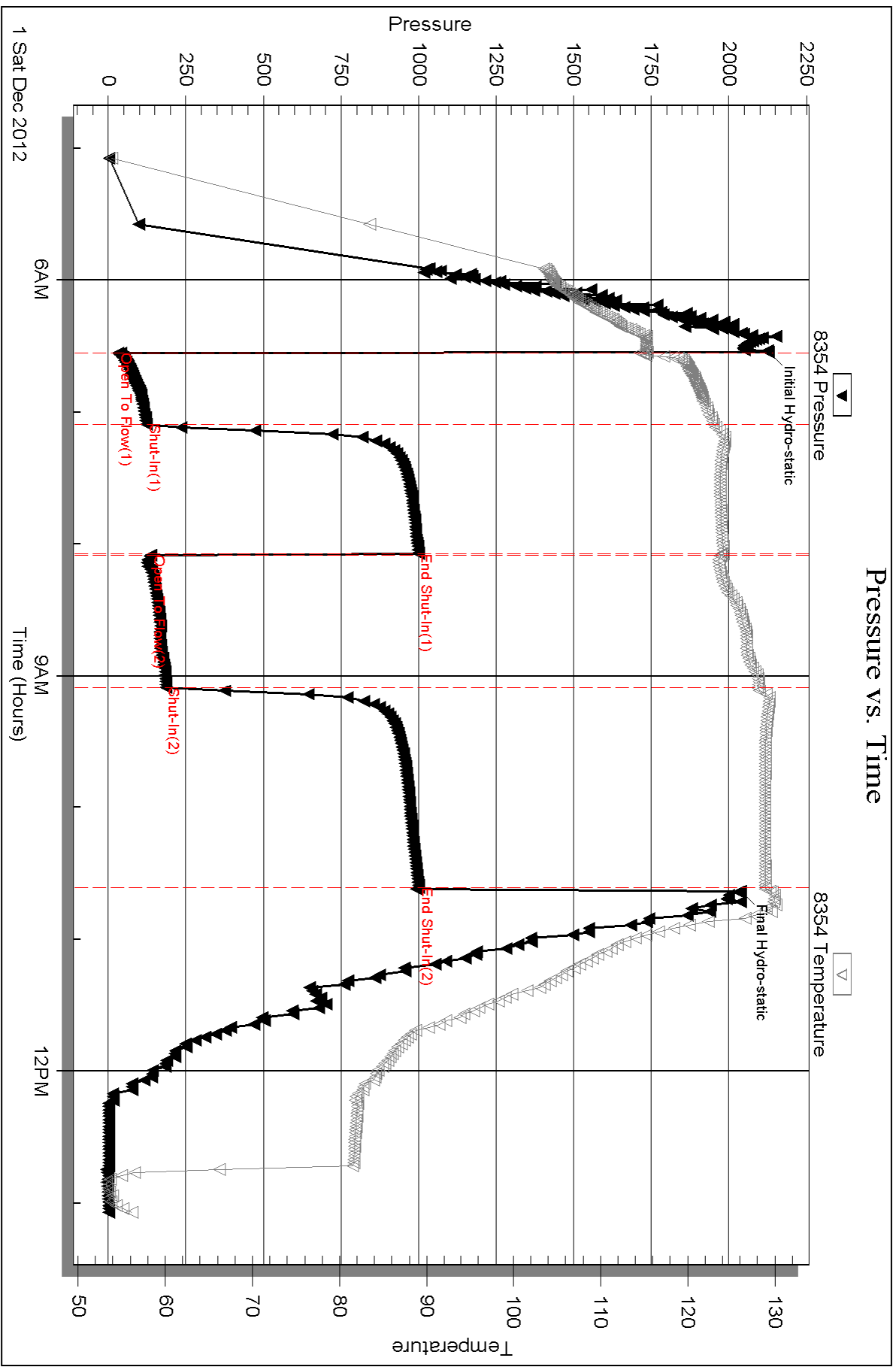
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Inside

Murfin Drilling Co Inc

Lundgren #2-36

DST Test Number: 5



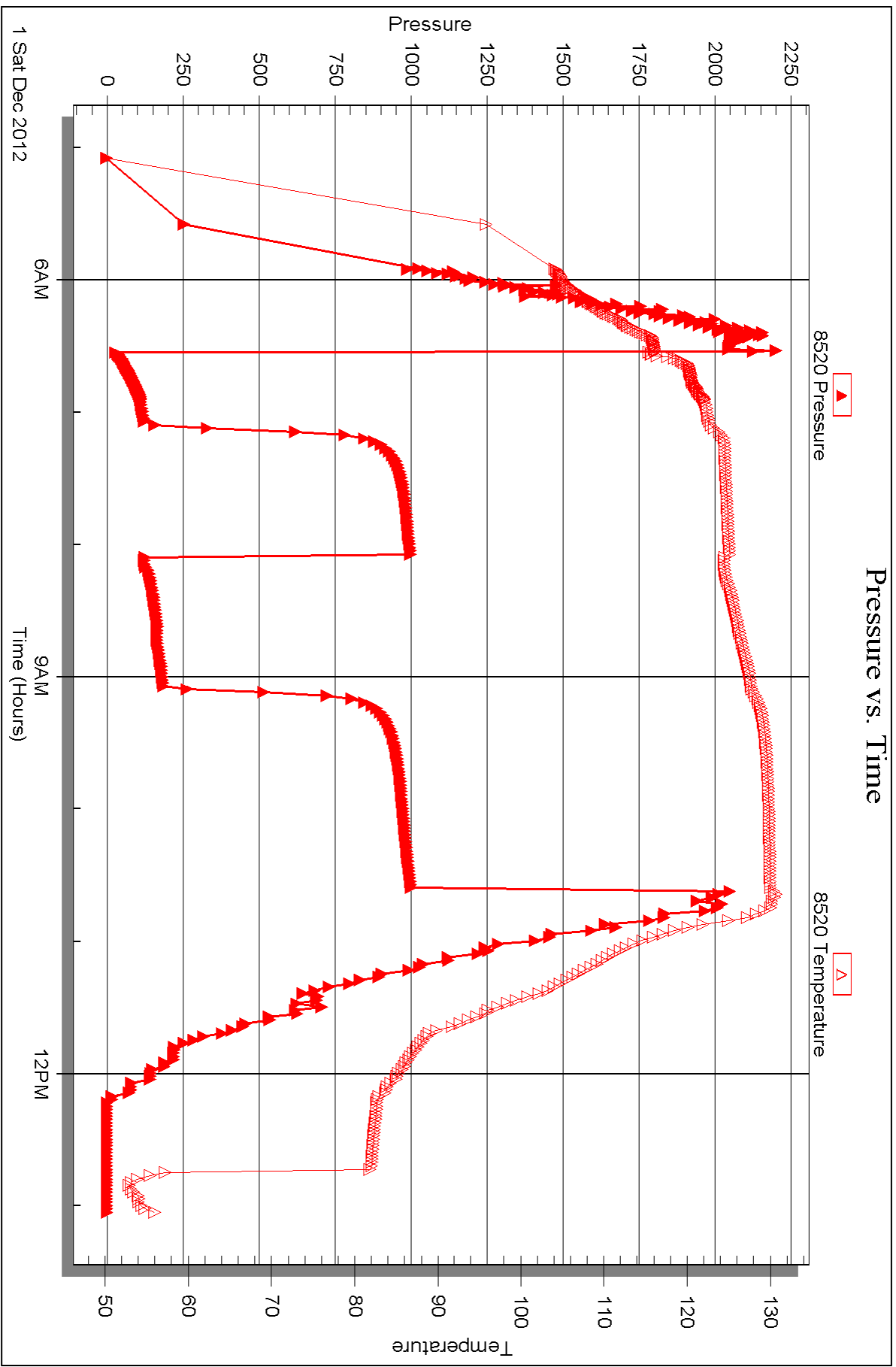
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Outside

Murfin Drilling Co Inc

Lundgren #2-36

DST Test Number: 5





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co Inc**

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

ATTN: Robert Hendrix

Lundgren #2-36

36-14s-30w Gove,KS

Start Date: 2012.12.02 @ 04:23:30

End Date: 2012.12.02 @ 11:56:30

Job Ticket #: 51657 DST #: 6

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.12.04 @ 13:01:20

Murfin Drilling Co Inc

36-14s-30w Gove,KS

Lundgren #2-36

DST # 6

Mississippian Dolomi

2012.12.02



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Co Inc
250 N. Water Ste. #300
Wichita, KS 67202
ATTN: Robert Hendrix

36-14s-30w Gove, KS
Lundgren #2-36
Job Ticket: 51657 **DST#: 6**
Test Start: 2012.12.02 @ 04:23:30

GENERAL INFORMATION:

Formation: **Mississippian Dolomi**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:01:30

Time Test Ended: 11:56:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Dustin Rash

Unit No: 66

Interval: 4349.00 ft (KB) To 4369.00 ft (KB) (TVD)

Total Depth: 4369.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2695.00 ft (KB)

2684.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: 8354

Inside

Press @ Run Depth: 55.41 psig @ 4351.00 ft (KB)

Start Date: 2012.12.02

End Date: 2012.12.02

Start Time: 04:33:30

End Time: 11:56:30

Capacity: 8000.00 psig

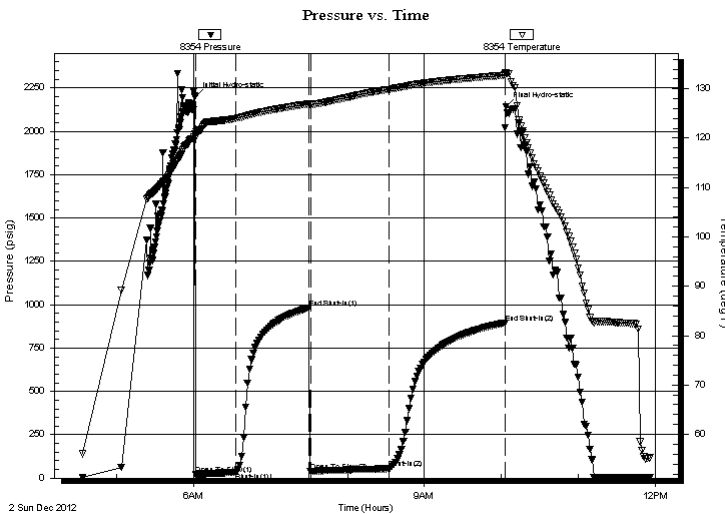
Last Calib.: 2012.12.02

Time On Btm: 2012.12.02 @ 06:01:20

Time Off Btm: 2012.12.02 @ 10:03:30

TEST COMMENT: IF-Weak surface blow . Built to 2 inches.
IS- No Return.
FF-Weak surface blow @ 5 1/2 minutes. Built to 2 inches.
FS- No Return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2200.65	121.01	Initial Hydro-static
1	22.48	120.13	Open To Flow (1)
32	33.64	124.01	Shut-In(1)
89	982.32	126.98	End Shut-In(1)
90	39.06	126.83	Open To Flow (2)
152	55.41	129.88	Shut-In(2)
242	895.87	132.75	End Shut-In(2)
243	2141.55	133.24	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	10%Gas/20%Oil/70%Mud	0.15
25.00	15%Gas/85%Oil	0.12

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co Inc

36-14s-30w Gove, KS

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

Lundgren #2-36

Job Ticket: 51657

DST#: 6

ATTN: Robert Hendrix

Test Start: 2012.12.02 @ 04:23:30

Tool Information

Drill Pipe:	Length: 4105.00 ft	Diameter: 3.80 inches	Volume: 57.58 bbl	Tool Weight: 3000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 233.00 ft	Diameter: 2.25 inches	Volume: 1.15 bbl	Weight to Pull Loose: 10000.00 lb
			<u>Total Volume: 58.73 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	17.00 ft			String Weight: Initial 68000.00 lb
Depth to Top Packer:	4349.00 ft			Final 68000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	20.00 ft			
Tool Length:	48.00 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			4322.00	
Shut In Tool	5.00			4327.00	
Hydraulic tool	5.00			4332.00	
Jars	5.00			4337.00	
Safety Joint	3.00			4340.00	
Packer	5.00			4345.00	28.00 Bottom Of Top Packer
Packer	4.00			4349.00	
Stubb	1.00			4350.00	
Perforations	1.00			4351.00	
Recorder	0.00	8354	Inside	4351.00	
Recorder	0.00	8520	Outside	4351.00	
Perforations	15.00			4366.00	
Bullnose	3.00			4369.00	20.00 Bottom Packers & Anchor

Total Tool Length: 48.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co Inc

36-14s-30w Gove,KS

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

Lundgren #2-36

Job Ticket: 51657

DST#: 6

ATTN: Robert Hendrix

Test Start: 2012.12.02 @ 04:23:30

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

41 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 62.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3100.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	10%Gas/20%Oil/70%Mud	0.148
25.00	15%Gas/85%Oil	0.123

Total Length: 55.00 ft

Total Volume: 0.271 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

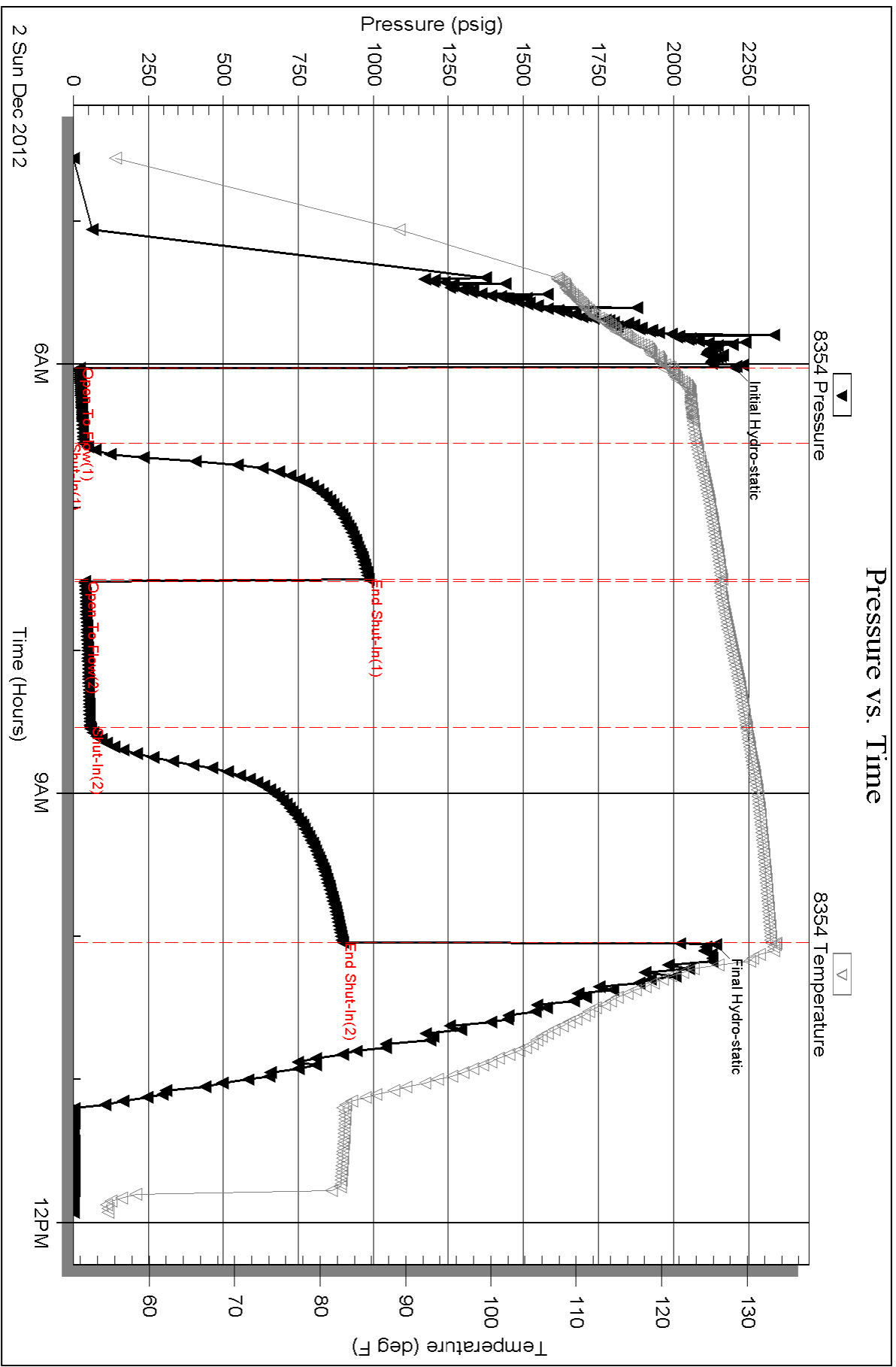
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Inside

Murfin Drilling Co Inc

Lundgren #2-36

DST Test Number: 6

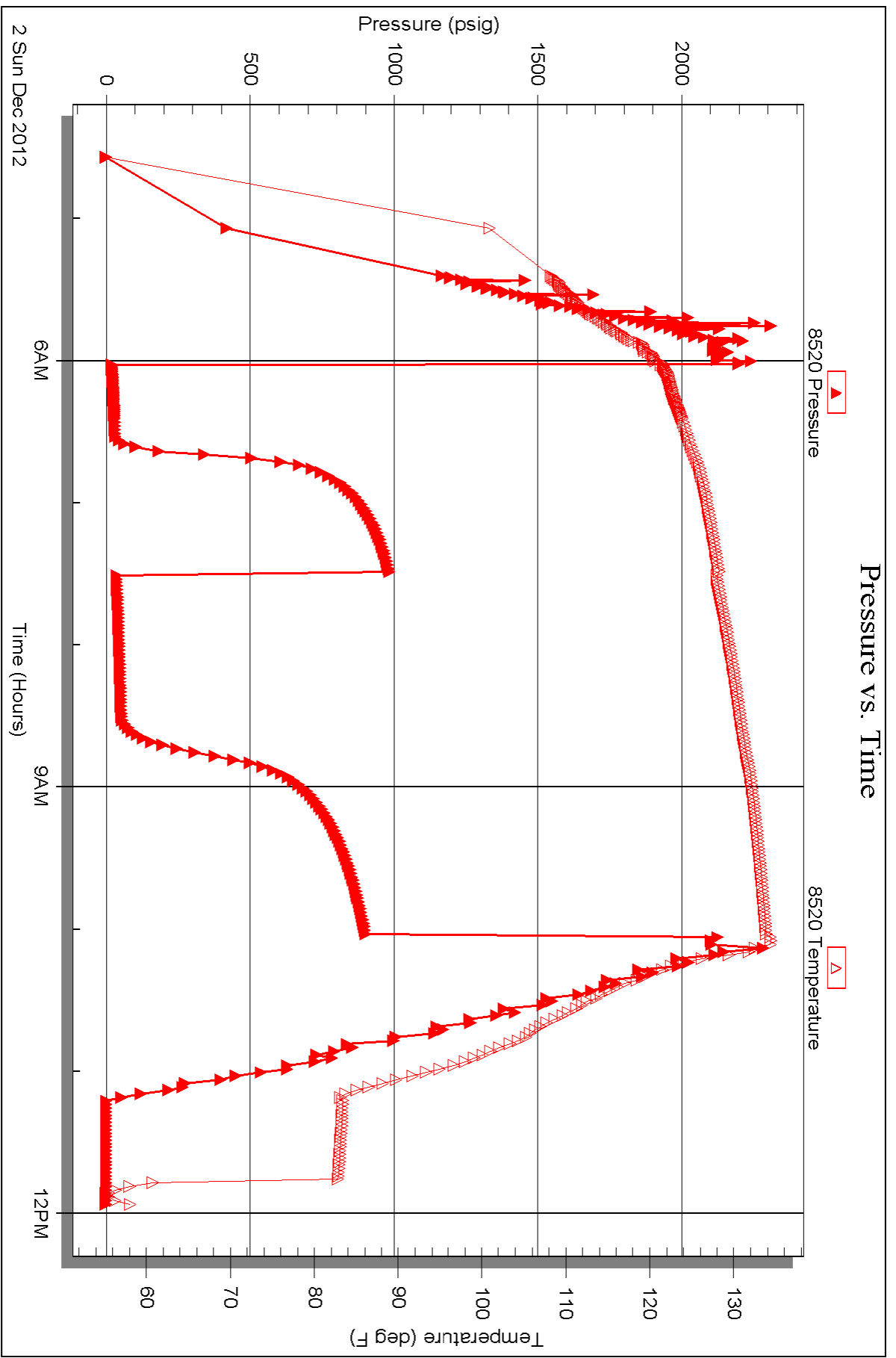


Serial #: 8520

Outside Murfin Drilling Co Inc

Lundgren #2-36

DST Test Number: 6





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 51652

Well Name & No. Lundgren #2-36 Test No. 1 Date _____
 Company Murphy Drilling Co., Inc. Elevation 2695 KB 2684 GL _____
 Address 250 N. Water St. #300 Wichita, KS 67202
 Co. Rep / Geo. Robert Hendrix Rig Murphy #2
 Location: Sec. 36 Twp. 14S Rge. 30W Co. Gove State KS

Interval Tested 3748-3828 Zone Tested Landing "B-F"
 Anchor Length 80' Drill Pipe Run 3507 Mud Wt. 9.3
 Top Packer Depth 3743 Drill Collars Run 233.08 Vis 63
 Bottom Packer Depth 3748 Wt. Pipe Run 0 WL 7.2
 Total Depth 3828 Chlorides 2800 ppm System LCM 6.0

Blow Description IF - Fair building blow, BOB @ 16 1/2 minutes,
ISI - 8 1/2 minutes of surging surface return,
FF - Fair building blow, BOB @ 16 1/2 minutes,
FBI - Very weak surface return for 22 minutes,

Rec	Feet of	%gas	%oil	%water	%mud
15	Gassy Oil	20	80		
136	SOCMW		10	50	40
484	Muddy Water			90	10

Rec Total 635 BHT 127 Gravity 39 API RW 1.541 @ 30 °F Chlorides 28000 ppm

(A) Initial Hydrostatic 1915 Test 1150 T-On Location 1815
 (B) First Initial Flow 34 Jars 250 T-Started 1905
 (C) First Final Flow 181 Safety Joint 75 T-Open 2115
 (D) Initial Shut-In 662 Circ Sub T-Pulled 0120
 (E) Second Initial Flow 185 Hourly Standby T-Out 0330
 (F) Second Final Flow 323 Mileage 100X2 84rt 130.20 Comments Batt-1905
 (G) Final Shut-In 659 Sampler _____
 (H) Final Hydrostatic 1923 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 1605.20
 Sub Total 1605.20 MP/DST Disc't _____

Approved By _____ Our Representative D. Rosh

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 51653

Well Name & No. Lurdron #2-36 Test No. 2 Date 11-28-12
 Company Mulvan Drilling Co., Inc. Elevation 2695 KB 2684 GL
 Address 250 N. Water St. #300 Wichita, KS 67202
 Co. Rep / Geo. Robert Hendrix Rig Mulvan 2
 Location: Sec. 36 Twp. 14S Rge. 30W Co. Gove State KS

Interval Tested 3883-3974 Zone Tested Landing "H, I, J"
 Anchor Length 91' Drill Pipe Run _____ Mud Wt. 8.9
 Top Packer Depth 3878 Drill Collars Run 233.08 Vis 81
 Bottom Packer Depth 3883 Wt. Pipe Run 0 WL 6.0
 Total Depth 3974 Chlorides 1800 ppm System LCM 5.0#

Blow Description IF-Weak building blow, Burt to 10 inches.
IST- No Return,
FF- Weak building blow, BOB @ 52 minutes.
FST- No Return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>162</u>	<u>60CM</u>	<u>10</u>	<u>20</u>	<u>70</u>	<u>0</u>
<u>116</u>	<u>0CWM</u>	<u>0</u>	<u>20</u>	<u>20</u>	<u>60</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 278 BHT 122 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 1920 Test 1150 T-On Location 1845
 (B) First Initial Flow 24 Jars 250 T-Started 1920
 (C) First Final Flow 82 Safety Joint 75 T-Open 2059
 (D) Initial Shut-In 993 Circ Sub _____ T-Pulled 0100
 (E) Second Initial Flow 95 Hourly Standby _____ T-Out 0245
 (F) Second Final Flow 150 Mileage 130.20 Comments Burt- 1918
 (G) Final Shut-In 973 Sampler _____
 (H) Final Hydrostatic 1924 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Extra Recorder _____ Sub Total 0
 Day Standby _____ Total 1605.20
 Accessibility _____ MP/DST Disc _____

Initial Open 30
 Initial Shut-In 60
 Final Flow 60
 Final Shut-In 90
 Sub Total 1605.20

Approved By _____ Our Representative [Signature]

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 51654

Well Name & No. Lundgren #2-36 Test No. 3 Date 11-29-12
 Company Mulvan Drilling Co., Inc. Elevation 2695 KB 2684 GL
 Address 250 N. Water St. #300 Wichita, KS 67202
 Co. Rep / Geo. Robert Hendrix Rig Mulvan 2
 Location: Sec. 36 Twp. 14S Rge. 30W Co. Cove State KS

Interval Tested 3975-4076 Zone Tested Lansing "K-L"
 Anchor Length 101' Drill Pipe Run 3729 Mud Wt. 8.9
 Top Packer Depth 3970 Drill Collars Run 233.08 Vis 81
 Bottom Packer Depth 3975 Wt. Pipe Run 0 WL 6.0
 Total Depth 4076 Chlorides 1800 ppm System LCM 5.0*

Blow Description IF-Strong building blow, BOB in 8 minutes,
FST-Return @ 30 seconds, Built to 4 inches,
FF-Strong building blow, BOB in 8 minutes,
FST-Return @ 30 seconds, Built to 9 inches,

Rec	Feet of	%gas	%oil	%water	%mud
126	Gassy Oil	40	60		
156	GWMCO	20	50	10	20
116	GOCWM	20	10	10	60
116	GOCMW	15	5	40	40
	660' G.I.P.				

Rec Total 514 BHT 178 Gravity 41 API RW 441 @ 37 °F Chlorides 30500 ppm

(A) Initial Hydrostatic 2008 Test 1250 T-On Location 1400
 (B) First Initial Flow 40 Jars 250 T-Started 1445
 (C) First Final Flow 149 Safety Joint 75 T-Open 1612
 (D) Initial Shut-In 746 Circ Sub T-Pulled 2015
 (E) Second Initial Flow 166 Hourly Standby T-Out 2230
 (F) Second Final Flow 238 Mileage 130.20 Comments Butt-1430
 (G) Final Shut-In 715 Sampler Ruined Shale Packer
 (H) Final Hydrostatic 1938 Straddle Ruined Packer
 Shale Packer Extra Copies

Initial Open 30 Extra Packer
 Initial Shut-In 60 Extra Recorder
 Final Flow 60 Day Standby
 Final Shut-In 90 Accessibility
 Sub Total 1705.20

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.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 51655

Well Name & No. Lundgren #2-36 Test No. 4 Date 11-30-12
 Company Mulfin Drilling Co., Inc. Elevation 2695 KB 2684 GL
 Address 250 N. Water St #300 Wichita, KS 67202
 Co. Rep / Geo. Robert Hendrix Rig Mulfin #2
 Location: Sec. 36 Twp. 14S Rge. 30W Co. Gove State KS

Interval Tested 4088-4196 Zone Tested Marmaton-Pawnee
 Anchor Length 108' Drill Pipe Run 3850 Mud Wt. 9.2
 Top Packer Depth 4083 Drill Collars Run 233.08 Vis 83
 Bottom Packer Depth 4088 Wt. Pipe Run 0 WL 6.4
 Total Depth 4196 Chlorides 2000 ppm System LCM 8.0

Blow Description IF - Very weak blow. Built to 3/4 inch. Died to 1/4 inch.
~~JST - No Return.~~
FF - Weak surface blow. Died @ 14 minutes.
~~FST - No Return.~~

Rec	Feet of	%gas	%oil	%water	%mud
<u>2</u>	<u>Oil</u>	<u>100</u>			
<u>10</u>	<u>OCM</u>	<u>10</u>			<u>90</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

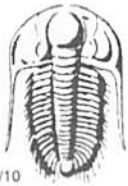
Rec Total 12 BHT 122 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 2094 Test 1250 T-On Location 1145
 (B) First Initial Flow 26 Jars 250 T-Started 1245
 (C) First Final Flow 29 Safety Joint 75 T-Open 1437
 (D) Initial Shut-In 93 Circ Sub _____ T-Pulled 1740
 (E) Second Initial Flow 30 Hourly Standby _____ T-Out 1930
 (F) Second Final Flow 31 Mileage 130.20 Comments Bot-1223
 (G) Final Shut-In 51 Sampler _____
 (H) Final Hydrostatic 2054 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____

Initial Open 30 Extra Packer _____ Extra Copies _____
 Initial Shut-In 60 Extra Recorder _____ Sub Total 0
 Final Flow 30 Day Standby _____ Total 1705.20
 Final Shut-In 60 Accessibility _____ MP/DST Disc't _____
 Sub Total 1705.20

Approved By _____ Our Representative

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.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 51656

4/10

Well Name & No. Lundgren #236 Test No. 5 Date 12-1-12
 Company Mulpin Drilling Co., Inc. Elevation 2695 KB 2684 GL
 Address 250 N. Ward St. #300 Wichita, KS 67202
 Co. Rep / Geo. Robert Hendrix Rig Mulpin #2
 Location: Sec. 36 Twp. 14S Rge. 30W Co. Cove State KS

Interval Tested 4188-4257 Zone Tested Lower Pawnee - Ft. Scott
 Anchor Length 69' Drill Pipe Run _____ Mud Wt. 9.3
 Top Packer Depth 4183 Drill Collars Run 233.08 Vis 62
 Bottom Packer Depth 4188 Wt. Pipe Run 0 WL 6.8
 Total Depth 4257 Chlorides 3100 ppm System LCM 5.0#

Blow Description IF - Strong building blow, BOB @ 6 minutes,
ISI - Return @ 30 seconds. Built to 3 inches,
FF - Strong building blow, BOB @ 7 minutes,
ISI - Return @ 30 seconds. Built to 8 inches.

Rec	Feet of	%gas	%oil	%water	%mud
<u>126</u>	<u>Gassy Oil</u>	<u>50%</u>	<u>50%</u>		
<u>326</u>	<u>G HOCM</u>	<u>40%</u>	<u>40%</u>		<u>20%</u>
Rec _____	Feet of _____	%gas _____	%oil _____	%water _____	%mud _____
Rec _____	Feet of _____	%gas _____	%oil _____	%water _____	%mud _____
Rec _____	Feet of <u>975' G.I.P.</u>	%gas _____	%oil _____	%water _____	%mud _____

Rec Total 452 BHT 129 Gravity 41 API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic <u>2129</u>	<input checked="" type="checkbox"/> Test 1250	T-On Location <u>0430</u>
(B) First Initial Flow <u>32</u>	<input checked="" type="checkbox"/> Jars 250	T-Started <u>0500</u>
(C) First Final Flow <u>123</u>	<input checked="" type="checkbox"/> Safety Joint 75	T-Open <u>0633</u>
(D) Initial Shut-In <u>999</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>1035</u>
(E) Second Initial Flow <u>138</u>	<input type="checkbox"/> Hourly Standby _____	T-Out _____
(F) Second Final Flow <u>186</u>	<input checked="" type="checkbox"/> Mileage 130.20	Comments <u>Bot-0454</u>
(G) Final Shut-In <u>999</u>	<input type="checkbox"/> Sampler _____	
(H) Final Hydrostatic <u>2039</u>	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> Ruined Shale Packer _____
	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Ruined Packer _____

Initial Open 30
 Initial Shut-In 60
 Final Flow 60
 Final Shut-In 90

Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____

Sub Total 1705.20

Total 1705.20

MP/DST Disc't _____

Approved By _____ Our Representative

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 51657

Well Name & No. Lundgren #2-36 Test No. 6 Date 12-2-12
 Company Murphy Drilling Co., Inc. Elevation 2695 KB 2684 GL
 Address 250 N. Water St. #300 Wichita, KS 67202
 Co. Rep / Geo. Robert Hendrix Rig Murphy 2
 Location: Sec. 36 Twp. 14S Rge. 30W Co. Gove State KS

Interval Tested 4349-4369 Zone Tested Mississippian Dolomite
 Anchor Length 20' Drill Pipe Run 4105 Mud Wt. 9.3
 Top Packer Depth 4344 Drill Collars Run 233.08 Vis 62
 Bottom Packer Depth 4349 Wt. Pipe Run 0 WL 6.8
 Total Depth 4369 Chlorides 3100 ppm System LCM 5.0#

Blow Description IF-Weak surface blow Built to 2 inches,
IF- No Return,
FF-Weak surface blow @ 5 1/2 minutes. Built to 2 inches,
FF- No Return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>25</u>	<u>Casey 0.1</u>	<u>15</u>	<u>85</u>		
<u>30</u>	<u>GOCM</u>	<u>10</u>	<u>20</u>		<u>70</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 55 BHT 133 Gravity 41 API RW @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 2201 Test 1250 T-On Location 0345
 (B) First Initial Flow 22 Jars 250 T-Started 0430
 (C) First Final Flow 34 Safety Joint 75 T-Open 0601
 (D) Initial Shut-In 982 Circ Sub T-Pulled 1005
 (E) Second Initial Flow 39 Hourly Standby T-Out 1200
 (F) Second Final Flow 55 Mileage 130.20 Comments BHT-0423
 (G) Final Shut-In 896 Sampler
 (H) Final Hydrostatic 2142 Straddle Ruined Shale Packer
 Shale Packer Ruined Packer
 Extra Packer Extra Copies

Initial Open 30
 Initial Shut-In 60
 Final Flow 80
 Final Shut-In 90
 Sub Total 1705.20
 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.



PO Box 93999
Southlake, TX 76092

INVOICE

Invoice Number: 133693

Invoice Date: Nov 24, 2012

Page: 1

acct.
Prod. - Liz H

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

Bill To:

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

PROD COPY



Customer ID	Well Name/# or Customer P.O.	Payment Terms	
Murfin	Lundgren #2-36	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-01	Oakley	Nov 24, 2012	12/24/12

Quantity	Item	Description	Unit Price	Amount
165.00	MAT	Class A Common	17.90	2,953.50
3.00	MAT	Gel	23.40	70.20
6.00	MAT	Chloride	64.00	384.00
178.41	SER	Cubic Feet	2.48	442.46
309.43	SER	Ton Mileage	2.60	804.53
1.00	SER	Surface	1,512.25	1,512.25
38.00	SER	Pump Truck Mileage	7.70	292.60
1.00	SER	Manifold Rental	275.00	275.00
38.00	SER	Light Vehicle Mileage	4.40	167.20
1.00	CEMENTER	Alan Ryan		
1.00	EQUIP OPER	Wayne McGhghy		
1.00	OPER ASSIST	David Scariano		

Account	Unit Rig	W L	No.	Amount	Description
FD203				4553.40	Cement S. Csg
	3.			4511.0002	# 2-36

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

\$ 2622.66

ONLY IF PAID ON OR BEFORE

Dec 19, 2012

Subtotal	6,901.74
Sales Tax	274.32
Total Invoice Amount	7,176.06
Payment/Credit Applied	
TOTAL	7,176.06

(2622.66)

4553.40

ALLIED OIL & GAS SERVICES, LLC 058811

Federal Tax I.D.# 20-5976804

REMIT TO P.O. BOX 93999
SOUTHLAKE, TEXAS 76092

SERVICE POINT:

Dealey, K.

DATE <u>11/24/12</u>	SEC. <u>36</u>	TWP. <u>14</u>	RANGE <u>30</u>	CALLED OUT	ON LOCATION	JOB START <u>5:00pm</u>	JOB FINISH <u>3:27pm</u>
LEASE <u>Indegen</u>	WELL # <u>2-36</u>	LOCATION <u>Old Gore 105 W TP 34 1/2 S</u>	COUNTY <u>Gove</u>	STATE <u>KS</u>	7.05		
OLD OR NEW (Circle one)	I/O		1.01				

CONTRACTOR <u>Murfin 2</u>	OWNER <u>Stamc</u>
TYPE OF JOB <u>System</u>	CEMENT AMOUNT ORDERED <u>165 Com 3970 C.C. 2970 gal</u>
HOLE SIZE <u>12 1/4"</u>	T.D. <u>200</u>
CASINO SIZE <u>8 5/8"</u>	DEPTH <u>200</u>
TUBING SIZE	DEPTH
DRILL PIPE	DEPTH
TOOL	DEPTH
PRES. MAX	MINIMUM
MEAS. LINE	SHOE JOINT
CEMENT LEFT IN CSG. <u>12</u>	
PERFS.	
DISPLACEMENT <u>13,0585</u>	

COMMON	165	@ 17.90	2953.50
POZMIX		@	
GEL	3	@ 23.40	70.20
CHLORIDE	0	@ 64.20	384.00
ASC		@	
HANDLING	178.12 CF	@ 2.40	442.40
MILBAG	200	@ 2.22	444.00
TOTAL			4654.10

EQUIPMENT

PUMP TRUCK	CEMENTER <u>Ala. Ryan</u>
# <u>422</u>	HELPER <u>Wyn McShay</u>
BULK TRUCK	DRIVER <u>David Trammes</u>
# <u>298</u>	DRIVER

REMARKS:

On Coy. Cement, Mix Cement
Displace Cement
Start
Cement Ord Onsite
Frank
Alan Wyn, David

SERVICE

DEPTH OF JOB	
PUMP TRUCK CHARGE	1512.00
EXTRA FOOTAGE	@
MILBAGE	38 @ 7.20 292.60
MANIFOLD	@
lic ven	38 @ 4.40 167.20
TOTAL	2247.05

CHARGE TO: Murfin Drilling

STREET _____

CITY _____ STATE _____ ZIP _____

PLUG & FLOAT EQUIPMENT

	@	
	@	
	@	
	@	
	@	
TOTAL		

To: Allied Oil & Gas Services, 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 Arturo Cabezas

SIGNATURE Arturo Cabezas

SALES TAX (if Any) 274.31

TOTAL CHARGES 6901.74

DISCOUNT 3622.66 IF PAID IN 30 DAYS

net 4279.08

3870



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



Invoice

DATE	INVOICE #
12/14/2012	22993

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

Original

IC 103
[Signature]

- Acidizing
- Cement
- Tool Rental

TERMS	Well No.	Lease	County	Contractor	Well Type	Well Category	Job Purpose	Operator
Net 30	#2	Lundgren	Gove	Company Tools	Oil	Development	Port Collar	Nick
PRICE REF.	DESCRIPTION				QTY	UM	UNIT PRICE	AMOUNT
575D	Mileage - 1 Way				60	Miles	6.00	360.00
576D-D	Pump Charge - Port Collar - 2134 Feet				1	Job	1,250.00	1,250.00
290	D-Air				2	Gallon(s)	35.00	70.00T
330	Swift Multi-Density Standard (MIDCON II)				155	Sacks	16.50	2,557.50T
276	Flocele				50	Lb(s)	2.00	100.00T
279	Bentonite Gel				10	Sack(s)	25.00	250.00T
581D	Service Charge Cement				260	Sacks	2.00	520.00
583D	Drayage				763	Ton Miles	1.00	763.00
	Subtotal							5,870.50
	Sales Tax Gove County						8.05%	239.69

Thank You For Your Business & Best Wishes For A Wonderful Holiday Season!!

Total \$6,110.19



Services, Inc.

CHARGE TO: Martin Drly Co. Inc
 ADDRESS: _____
 CITY, STATE, ZIP CODE: _____

TICKET NO: **22993**

PAGE 1 OF 1

SERVICE LOCATIONS	WELL/PROJECT NO.	LEASE	COUNTY/PARISH	STATE	CITY	DATE	OWNER
1. <u>Hays, KS</u>	<u>#2</u>	<u>Langren</u>	<u>Goze</u>	<u>Ks</u>		<u>12-14-12</u>	<u>same</u>
2. <u>Ness City, KS</u>	TICKET TYPE <input checked="" type="checkbox"/> SERVICE <input type="checkbox"/> SALES	CONTRACTOR <u>Co Tals</u>	RIG NAME/NO.	SHIPPED VIA	DELIVERED TO	ORDER NO.	
	WELL TYPE <u>oil</u>	WELL CATEGORY <u>Development</u>	JOB PURPOSE <u>Part Celler</u>	<u>ST</u>	<u>Location</u>		
4. REFERRAL LOCATION	INVOICE INSTRUCTIONS			WELL PERMIT NO.		WELL LOCATION	

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	LOC	ACCT	DF	DESCRIPTION	QTY.	UM	QTY.	UM	UNIT PRICE	AMOUNT
575		1			MILEAGE #111	60	mi			6.00	360.00
576D		1			Pump Charge Part Celler	1	kg	2134		1250.00	1250.00
290		1			D-Air	2	gal			35.00	70.00
330		2			SMD Cement	155	lbs			16.50	2557.50
276		2			Fluore	50	#			2.00	100.00
279		2			Beatonite Gel	10	gals			25.00	250.00
581		2			Cement Service Charge	260	lbs			2.00	520.00
583		2			Drayage	763	VM			1.00	763.00

LEGAL TERMS: Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, **PAYMENT, RELEASE, INDEMNITY**, and **LIMITED WARRANTY** provisions.

MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS

DATE SIGNED: 12-14-12 TIME SIGNED: 1410 A.M. P.M.

SIGNED: [Signature]

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

SURVEY

OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?	AGREE	UN-DECIDED	DIS-AGREE
WE UNDERSTOOD AND MET YOUR NEEDS?			
OUR SERVICE WAS PERFORMED WITHOUT DELAY?			
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?			
ARE YOU SATISFIED WITH OUR SERVICE?	<input type="checkbox"/> YES	<input type="checkbox"/> NO	

CUSTOMER DID NOT WISH TO RESPOND

GIVE TAX 80059

TOTAL 6110.19

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES The customer hereby acknowledges receipt of the materials and services listed on this ticket

SWIFT OPERATOR: [Signature] APPROVAL: [Signature]

Thank You!

JOB LOG

SWIFT Services, Inc.

DATE 12-14-12 PAGE NO. 1

CUSTOMER Murfin Drilling Co Inc WELL NO. #2 LEASE Lungren JOB TYPE Pert Collar TICKET NO. 22993

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1030							on loc w/Trk
								2 3/8" x 5 1/2" P.C. 2134
							1000	Test Csg to 1200 Psi Open P.C.
		3	3			400		Take rate & check for blow
	1315	4.5	0			600		start Gel 10 sks
	1321	4	32/0			600		start wtr sbhl
	1322	4	5/0			600		start Cement 155 sks SMD
	1332	4	75			600		circ Cement/Raise weight
	1333	4	80/0			600		End Cement / start Displacement
	1335		7.5					Cement Displaced
								Close P.C.
	1340							Test Csg to 1000 Psi
								Run 5 jts
	1345	3	0					Reverse out
	1355		20					Hole Clean
								155 sks SMD
								10 sks gel
								circ 20 sks to pit
								Thank you
								Nick, David E. & Isaac



Acid

Invoice

DATE	INVOICE #
12/3/2012	23712

*cc: WT
Liz
L-L*

BILL TO

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

ORDER FOR

APPROVED

IC 103
[Signature]

Acidizing

- Cement
- Tool Rental

TERMS	Well No.	Lease	County	Contractor	Well Type	Well Category	Job Purpose	Operator
Net 30	#2-36	Lundgren	Gove	Murfin Drilling Ri...	Oil	Development	5-1/2" LongString	Jason
PRICE REF.	DESCRIPTION				QTY	UM	UNIT PRICE	AMOUNT
575D	Mileage - 1 Way				70	Miles	6.00	420.00
578D-L	Pump Charge - Long String - 4450 Feet				1	Job	1,500.00	1,500.00
403-5	5 1/2" Cement Basket				1	Each	250.00	250.00T
404-5	5 1/2" Port Collar - 2134 Feet				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
409-5	5 1/2" Turbolizer				10	Each	90.00	900.00T
413-5	5 1/2" Roto Wall Scratcher				25	Each	40.00	1,000.00T
419-5	5 1/2" Rotating Head Rental				1	Each	200.00	200.00T
280	Flocheck 21				500	Gallon(s)	2.50	1,250.00T
221	Liquid KCL (Clayfix)				4	Gallon(s)	25.00	100.00T
276	Flocele				57	Lb(s)	2.00	114.00T
283	Salt				1,100	Lb(s)	0.20	220.00T
284	Calseal				11	Sack(s)	35.00	385.00T
285	CFR-1				150	Lb(s)	4.00	600.00T
290	D-Air				2	Gallon(s)	35.00	70.00T
325	Standard Cement				225	Sacks	13.50	3,037.50T
581D	Service Charge Cement				225	Sacks	2.00	450.00
583D	Drayage				824.49	Ton Miles	1.00	824.49
Subtotal								14,320.99
Sales Tax Gove County							8.05%	895.68

Thank You For Your Business & Best Wishes For A Wonderful Holiday Season!!

Total \$15,216.67



Services, Inc.

CHARGE TO: MURFIN DRILLING
 ADDRESS: _____
 CITY, STATE, ZIP CODE: _____

TICKET No 23712

PAGE 1 OF 2

SERVICE LOCATIONS: 1. WBS City, KS. WELLPROJECT NO. LEASE: LUNDAREL 2-36 COUNTY/PARISH: BOVE STATE: KS. CITY: BOVE, KS. DATE: 3 Dec 12 OWNER: _____

2. TICKET TYPE: CONTRACTOR MURFIN DRILLING RIG # 2 RIG NAME NO. SHIPPED VIA DELIVERED TO ORDER NO. _____

3. WELL TYPE: OIL WELL CATEGORY: DEVELOPMENT JOB PURPOSE: S&L HOIST STRINGS WELL PERMIT NO. _____

4. REFERRAL LOCATION: INVOICE INSTRUCTIONS: 105 SW 1/4 S, S/W 1/4 T20

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.			UNIT PRICE	AMOUNT
		LOC	ACCT	DF		QTY.	UM	QTY.		
575					MILEAGE #115	7	DMU		6.90	481.30
578					Pump charge	1	NOB	4450 FT	1500.00	1500.00
403					Cement BASKET	1	EA		250.00	250.00
404					PORT COLLAR	1	EA	2134 FT.	240.00	240.00
406					LARGE DOWN PUMP & BANGLE	1	EA		250.00	250.00
407					INSERT PDMG SNDE w/AUTO FILL	1	EA		350.00	350.00
409					TURBUZERS	10	EA		90.00	900.00
413					3" TO 1" DIAL SCRATERS	25	EA	125 FT.	40.00	1000.00
419					ROTATING HEAD RENTAL	1	NOB		200.00	200.00
280					FLC HECK 21	500	YR		2.50	1250.00
221					LIDWD REL	4	YR		25.00	100.00

LEGAL TERMS: Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, PAYMENT, RELEASE, INDEMNITY, and LIMITED WARRANTY provisions.

MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS

X DATE SIGNED: 3 Dec 12 TIME SIGNED: 1:30 P.M.

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

SURVEY	AGREE	UN-DECIDED	DIS-AGREE	PAGE TOTAL	AMOUNT
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?				1	862.00
WE UNDERSTOOD AND MET YOUR NEEDS?				2	570.00
OUR SERVICE WAS PERFORMED WITHOUT DELAY?					
WE OPERATED THE EQUIPMENT AND PERFORMED JOB SATISFACTORILY?					
ARE YOU SATISFIED WITH OUR SERVICES?	<input type="checkbox"/> YES	<input type="checkbox"/> NO			
<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND					
TAX 8.05%					895.68
TOTAL					15,216.67

SWIFT OPERATOR: [Signature] APPROVAL: [Signature]

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES: The customer hereby acknowledges receipt of the materials and services listed on this ticket.

Thank You!



Services, Inc.

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

TICKET CONTINUATION

TICKET No. 23712

CUSTOMER MURFIN DRILLING WELLS HUNTEREN 2-36 DATE 3 DEC 12 PAGE 21 OF 2

PRICE REFERENCE	SECONDARY REFERENCE PART NUMBER	ACCOUNTING			TIME	DESCRIPTION	WELLS				UNIT PRICE	AMOUNT	
		LOC	ACC	DE			QTY	UM	QTY	UM			QTY
276						ELDELE	57	lbs				2.00	114.00
283						SALT	1100	lb				2.00	2200.00
284						CAUSEAL	11	SY				35.00	385.00
285						CFR-1	152	lb				2.70	410.40
290						D-AIR	2	gal				35.00	70.00
325						STANDARD CEMENT EA-2	225	SY				13.00	3037.50
581						SERVICE CHARGE	225	SY				2.00	450.00
583						MINOR CHARGE	235	SY				1.00	235.00
TOTAL MILEAGE							235	SY					
TOTAL MILEAGE CHARGE							235	SY					
LOADED MILES							235	SY					
CUBIC FEET							235	SY					
TON MILES							235	SY					
CONTINUATION TOTAL												5780.99	

JOB LOG

SWIFT Services, Inc.

DATE 3 DEC 12 PAGE NO.

CUSTOMER MURFIN DRILLING WELL NO. LEASE LUNDGREN 2-36 JOB TYPE 5 1/2 LONGSTRING TICKET NO. 23712

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	0930							ON LOCATION
	1425							START PIPE 5 1/2 - 15.5 # RTD @ 4450 - LTD @ 4456 SHAFT. 21' CENTRALIZERS, 1, 2, 3, 4, 6, 8, 10, 12, 14, 53 BASKET. 54 PC ON TOP # 54 @ 2134
	1635				✓			DROP BALL - CIRCULATE
	0722	6 1/2	15		✓		400	Pump 15 BBL KCL FLUSH
		6 1/2	12		✓		400	Pump 500 GAL FLOCHECK
		6 1/2	5		✓		400	Pump 5 BBL KCL FLUSH
	1727		7.5					PLUG RH - MA (30sx - 20sx)
	1731	6	42		✓			MIX 175sx EA 2
	1743							WASH OUT Pump & LINES
	1746	6 1/2			✓			START DISPLACING PLUG
	1803	Ø	105 1/2		✓		1500	PLUG DOWN PSI UP LATCH PLUG IN
	1806							RELEASE PSI - DRY
	1810							WASH TRUCK
	1830							JOB COMPLETE
								THANKS # 115
								JASON JEFF ISAAC.