



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1217661
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: _____

1217661

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
--	---

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: <input type="checkbox"/> Yes <input type="checkbox"/> No
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Date of First, Resumed Production, SWD or ENHR.	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____				
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> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Murfin Drilling Co., Inc.
Well Name	Alex 2-23
Doc ID	1217661

All Electric Logs Run

BHCS
DIL
DUCP
MEL



DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co., Inc.**

250 N. Water, Ste 300
Wichita KS 67202

ATTN: Bob Stolzle

Alex #2-23

23-4s-31w Rawlins,KS

Start Date: 2014.04.25 @ 12:02:00

End Date: 2014.04.25 @ 21:30:15

Job Ticket #: 55214 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2014.04.29 @ 10:31:06



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Co., Inc.
250 N. Water, Ste 300
Wichita KS 67202
ATTN: Bob Stolzle

23-4s-31w Rawlins,KS

Alex #2-23

Job Ticket: 55214

DST#: 1

Test Start: 2014.04.25 @ 12:02:00

GENERAL INFORMATION:

Formation: **Toronto - LKC B**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:39:00

Time Test Ended: 21:30:15

Test Type: Conventional Bottom Hole (Initial)

Tester: Royal Fisher

Unit No: 54

Interval: 3922.00 ft (KB) To 4005.00 ft (KB) (TVD)

Reference Elevations: 2925.00 ft (KB)

Total Depth: 4005.00 ft (KB) (TVD)

2920.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 6753

Inside

Press@RunDepth: 132.33 psig @ 3923.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.04.25

End Date:

2014.04.25

Last Calib.:

2014.04.25

Start Time: 12:02:05

End Time:

21:30:15

Time On Btm:

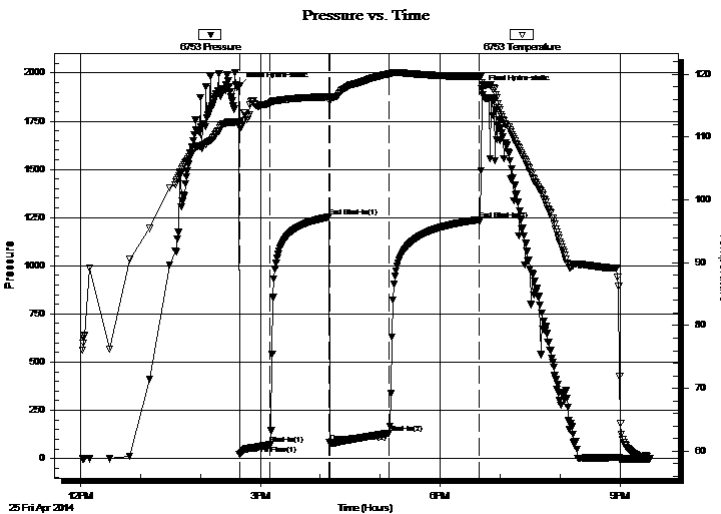
2014.04.25 @ 14:38:45

Time Off Btm:

2014.04.25 @ 18:41:45

TEST COMMENT: 30 - IF - Surface blow built up to 4"
60 - ISI - No Return
60 - FF - Surface blow built to 6 1/2"
90 - FSI - No Return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1927.96	112.37	Initial Hydro-static
1	21.58	111.54	Open To Flow (1)
31	72.04	115.36	Shut-In(1)
91	1253.02	116.38	End Shut-In(1)
91	83.90	115.61	Open To Flow (2)
151	132.33	120.05	Shut-In(2)
241	1239.21	119.59	End Shut-In(2)
243	1915.74	118.71	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
126.00	OSMW - 10M - 90W - oil spots	1.20
126.00	OCWM - 60M - 30W - 10o	1.77

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co., Inc.

23-4s-31w Rawlins,KS

250 N. Water, Ste 300
Wichita KS 67202

Alex #2-23

Job Ticket: 55214

DST#: 1

ATTN: Bob Stolzle

Test Start: 2014.04.25 @ 12:02:00

Tool Information

Drill Pipe:	Length: 3840.31 ft	Diameter: 3.80 inches	Volume: 53.87 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 62.69 ft	Diameter: 2.25 inches	Volume: 0.31 bbl	Weight to Pull Loose: 72000.00 lb
			<u>Total Volume: 54.18 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	3922.00 ft			Final 62000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	83.00 ft			
Tool Length:	110.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Shut In Tool	5.00			3900.00	
Hydraulic tool	5.00			3905.00	
Jars	5.00			3910.00	
Safety Joint	3.00			3913.00	
Packer	4.00			3917.00	27.00 Bottom Of Top Packer
Packer	5.00			3922.00	
Stubb	1.00			3923.00	
Recorder	0.00	8368	Inside	3923.00	
Recorder	0.00	6753	Inside	3923.00	
Perforations	13.00			3936.00	
Change Over Sub	1.00			3937.00	
Drill Pipe	63.00			4000.00	
Change Over Sub	1.00			4001.00	
Bullnose	4.00			4005.00	83.00 Bottom Packers & Anchor

Total Tool Length: 110.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co., Inc.

23-4s-31w Rawlins,KS

250 N. Water, Ste 300
Wichita KS 67202

Alex #2-23

Job Ticket: 55214

DST#: 1

ATTN: Bob Stolzle

Test Start: 2014.04.25 @ 12:02:00

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: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.99 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1300.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
126.00	OSMW - 10M - 90W - oil spots	1.196
126.00	OCWM - 60M - 30W - 10o	1.767

Total Length: 252.00 ft

Total Volume: 2.963 bbl

Num Fluid Samples: 0

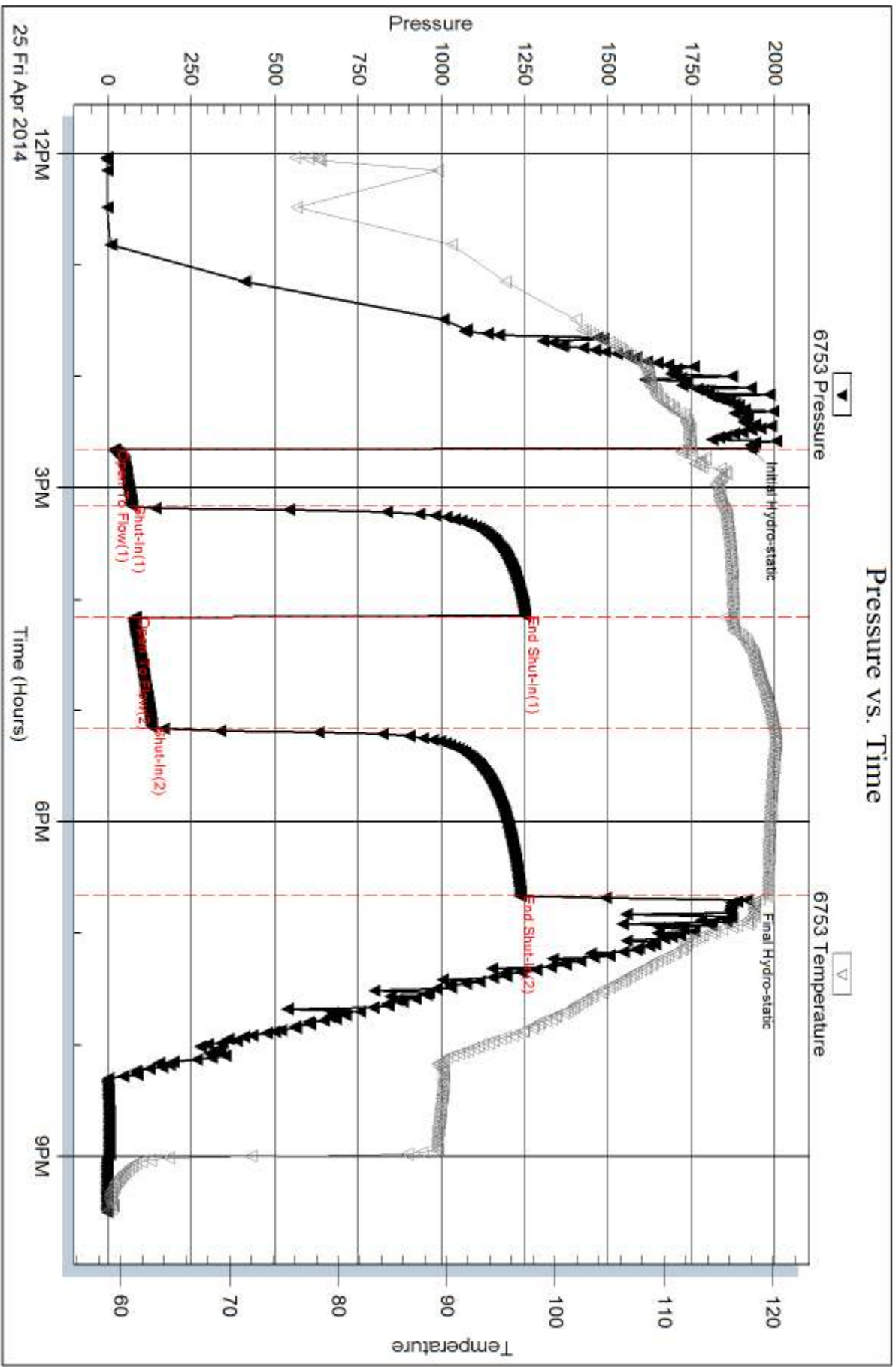
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



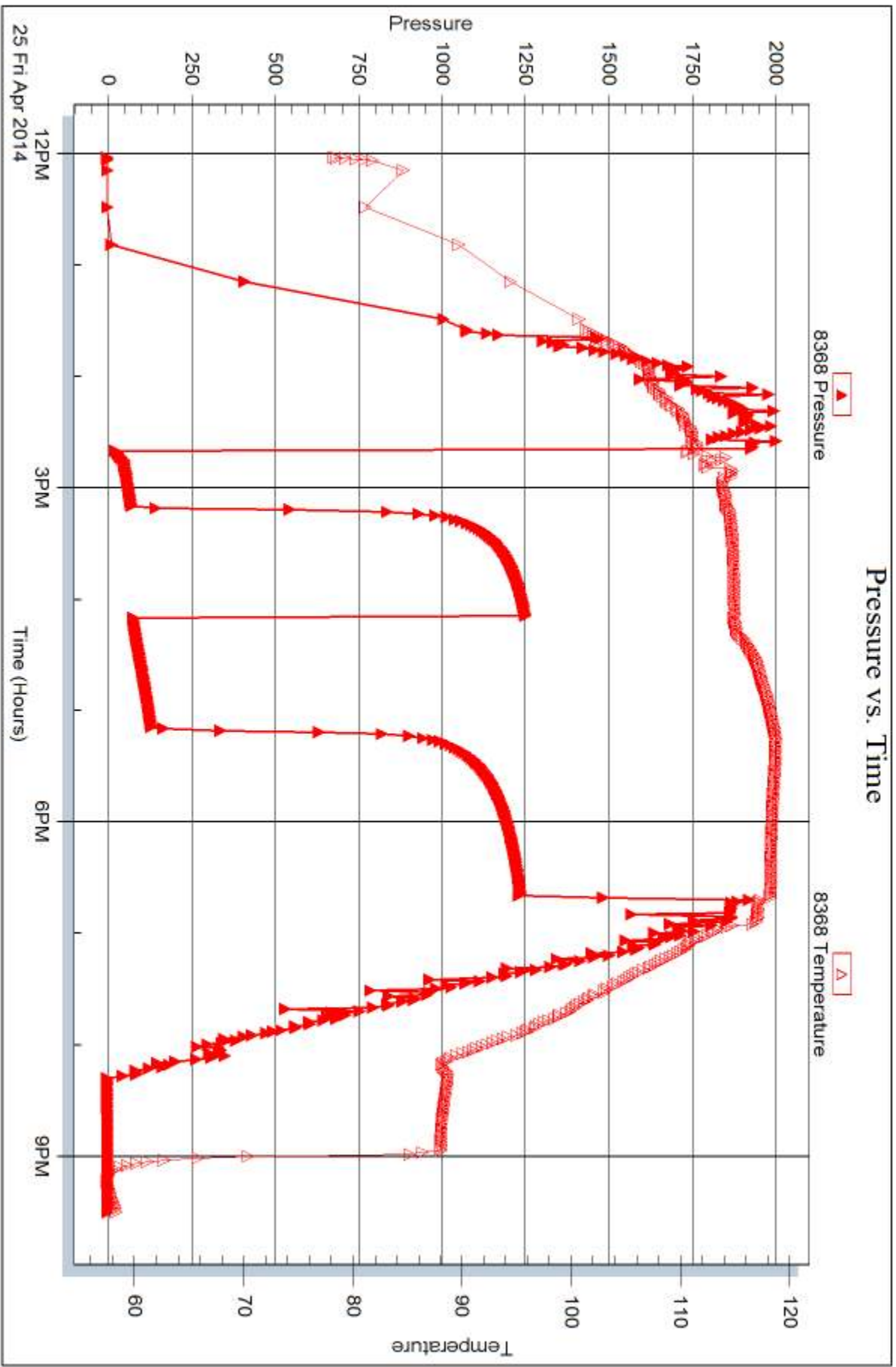
Serial #: 8368

Inside

Murfin Drilling Co., Inc.

Alex #2-23

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 55214

Printed: 2014.04.29 @ 10:31:07



DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co., Inc.**

250 N. Water, Ste 300
Wichita KS 67202

ATTN: Bob Stolzle

Alex #2-23

23-4s-31w Rawlins,KS

Start Date: 2014.04.26 @ 10:00:00

End Date: 2014.04.26 @ 18:57:00

Job Ticket #: 55215 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2014.04.29 @ 10:30:38



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co., Inc.
 250 N. Water, Ste 300
 Wichita KS 67202
 ATTN: Bob Stolzle

23-4s-31w Rawlins, KS

Alex #2-23

Job Ticket: 55215

DST#: 2

Test Start: 2014.04.26 @ 10:00:00

GENERAL INFORMATION:

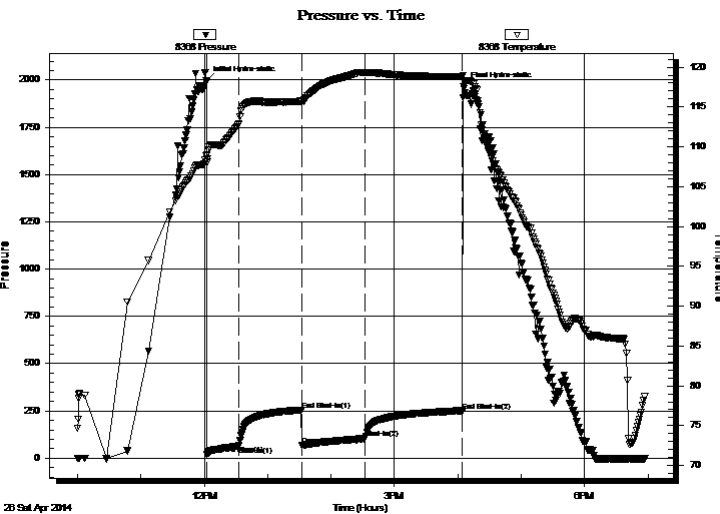
Formation: **LKC 'F' - 'G'**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 12:02:30
 Time Test Ended: 18:57:00
 Interval: **4020.00 ft (KB) To 4060.00 ft (KB) (TVD)**
 Total Depth: 4060.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Royal Fisher
 Unit No: #54
 Reference Elevations: 2925.00 ft (KB)
 2920.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 8368

Inside

Press@RunDepth: 104.12 psig @ 4021.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.04.26 End Date: 2014.04.26 Last Calib.: 2014.04.26
 Start Time: 10:00:05 End Time: 18:57:00 Time On Btm: 2014.04.26 @ 12:02:15
 Time Off Btm: 2014.04.26 @ 16:05:30

TEST COMMENT: 30 - IF - Surface blow built to bottom of bucket in 27 mins.
 60 - ISI - Faint Return started 5 mins. into and died off in 20 mins.
 60 - FF - Surface blow built up to 11"
 90 - FSI - No Return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1997.07	108.92	Initial Hydro-static
1	21.75	108.06	Open To Flow (1)
31	63.37	112.83	Shut-In(1)
90	255.01	115.72	End Shut-In(1)
90	68.32	115.63	Open To Flow (2)
150	104.12	119.33	Shut-In(2)
242	248.01	118.80	End Shut-In(2)
244	1963.69	118.31	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
169.00	OSMW - 15M - 85W - oil spots	1.80
25.00	Free Oil - 100o	0.35
0.00	184' GIP	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: Bob Stolzle

23-4s-31w Rawlins, KS

Alex #2-23

Job Ticket: 55215

DST#: 2

Test Start: 2014.04.26 @ 10:00:00

GENERAL INFORMATION:

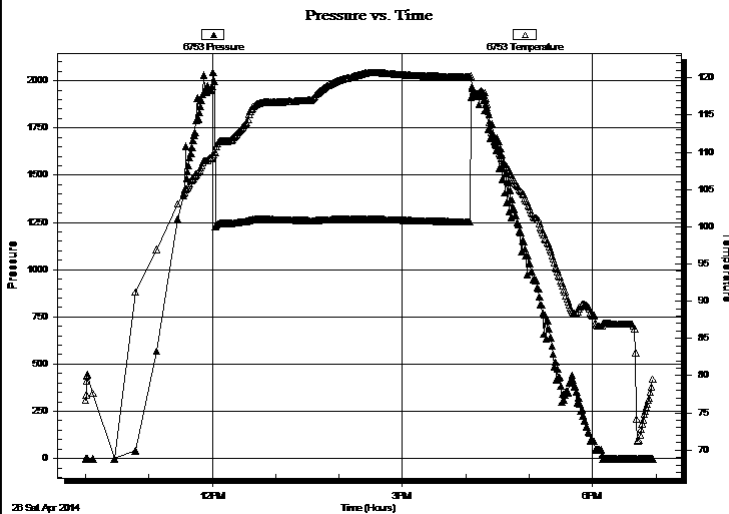
Formation: **LKC 'F' - 'G'**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 12:02:30
 Time Test Ended: 18:57:00
 Interval: **4020.00 ft (KB) To 4060.00 ft (KB) (TVD)**
 Total Depth: 4060.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches
 Hole Condition: Good
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Royal Fisher
 Unit No: #54
 Reference Elevations: 2925.00 ft (KB)
 2920.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 6753

Inside

Press@RunDepth: psig @ 4021.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.04.26 End Date: 2014.04.26 Last Calib.: 2014.04.26
 Start Time: 10:00:05 End Time: 18:57:00 Time On Btm:
 Time Off Btm:

TEST COMMENT: 30 - IF - Surface blow built to bottom of bucket in 27 mins.
 60 - ISI - Faint Return started 5 mins. into and died off in 20 mins.
 60 - FF - Surface blow built up to 11"
 90 - FSI - No Return



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
169.00	OSMW - 15M - 85W - oil spots	1.80
25.00	Free Oil - 100o	0.35
0.00	184' GIP	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.

23-4s-31w Rawlins,KS

250 N. Water, Ste 300
Wichita KS 67202

Alex #2-23

Job Ticket: 55215

DST#: 2

ATTN: Bob Stolzle

Test Start: 2014.04.26 @ 10:00:00

Tool Information

Drill Pipe:	Length: 3934.68 ft	Diameter: 3.80 inches	Volume: 55.19 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 62.69 ft	Diameter: 2.25 inches	Volume: 0.31 bbl	Weight to Pull Loose:	65000.00 lb
			<u>Total Volume: 55.50 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	4.37 ft			String Weight: Initial	58000.00 lb
Depth to Top Packer:	4020.00 ft			Final	60000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	40.00 ft				
Tool Length:	67.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3998.00	
Hydraulic tool	5.00			4003.00	
Jars	5.00			4008.00	
Safety Joint	3.00			4011.00	
Packer	4.00			4015.00	27.00 Bottom Of Top Packer
Packer	5.00			4020.00	
Stubb	1.00			4021.00	
Recorder	0.00	6753	Inside	4021.00	
Recorder	0.00	8368	Inside	4021.00	
Perforations	35.00			4056.00	
Bullnose	4.00			4060.00	40.00 Bottom Packers & Anchor

Total Tool Length: 67.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co., Inc.

23-4s-31w Rawlins,KS

250 N. Water, Ste 300
Wichita KS 67202

Alex #2-23

Job Ticket: 55215

DST#: 2

ATTN: Bob Stolzle

Test Start: 2014.04.26 @ 10:00:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

37 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.39 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
169.00	OSMW - 15M - 85W - oil spots	1.800
25.00	Free Oil - 100o	0.351
0.00	184' GIP	0.000

Total Length: 194.00 ft Total Volume: 2.151 bbl

Num Fluid Samples: 0

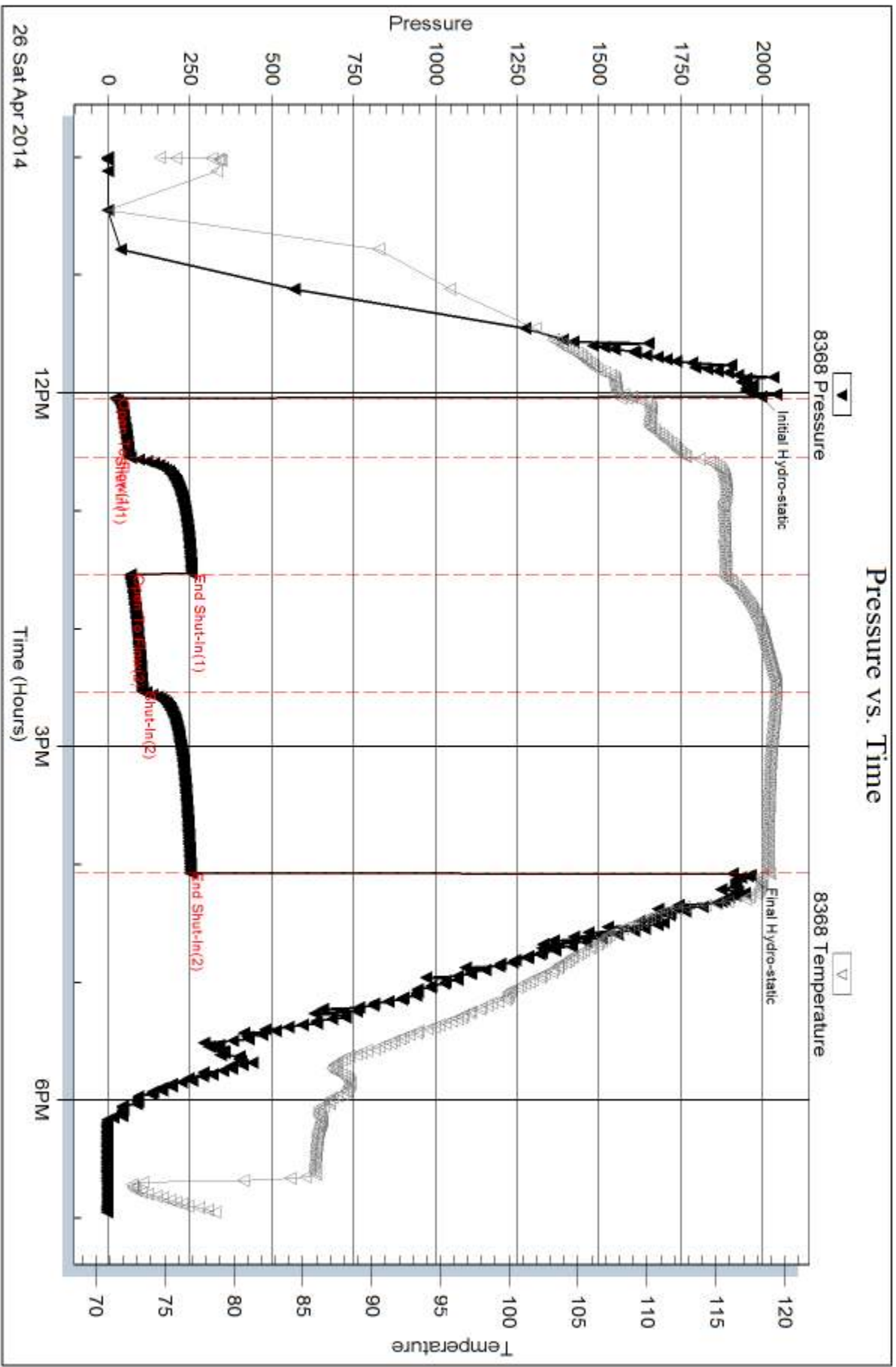
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



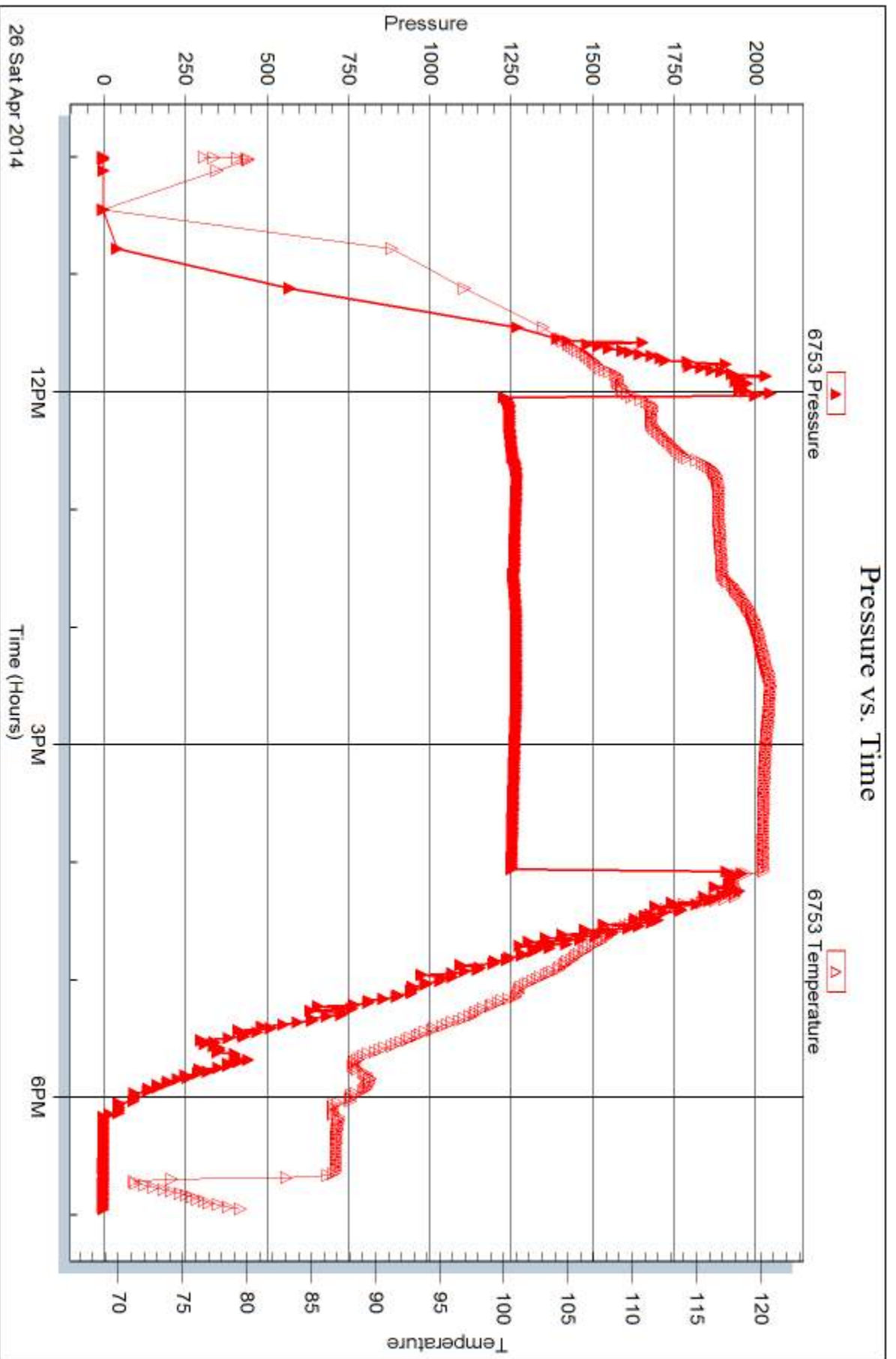
Serial #: 6753

Inside

Murfin Drilling Co., Inc.

Alex #2-23

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 55215

Printed: 2014.04.29 @ 10:30:39



DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co., Inc.**

250 N. Water, Ste 300
Wichita KS 67202

ATTN: Bob Stolzle

Alex #2-23

23-4s-31w Rawlins,KS

Start Date: 2014.04.27 @ 11:09:00

End Date: 2014.04.27 @ 19:51:45

Job Ticket #: 55216 DST #: 3

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

Printed: 2014.04.29 @ 10:29:13



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Co., Inc.

23-4s-31w Rawlins, KS

250 N. Water, Ste 300
Wichita KS 67202

Alex #2-23

Job Ticket: 55216

DST#: 3

ATTN: Bob Stolzle

Test Start: 2014.04.27 @ 11:09:00

GENERAL INFORMATION:

Formation: **LKC H - J**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:08:45

Time Test Ended: 19:51:45

Test Type: Conventional Bottom Hole (Initial)

Tester: Royal Fisher

Unit No: #54

Interval: 4070.00 ft (KB) To 4170.00 ft (KB) (TVD)

Reference Elevations: 2925.00 ft (KB)

Total Depth: 4170.00 ft (KB) (TVD)

2920.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 6753

Inside

Press@RunDepth: 74.21 psig @ 4071.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.04.27

End Date: 2014.04.27

Last Calib.: 2014.04.27

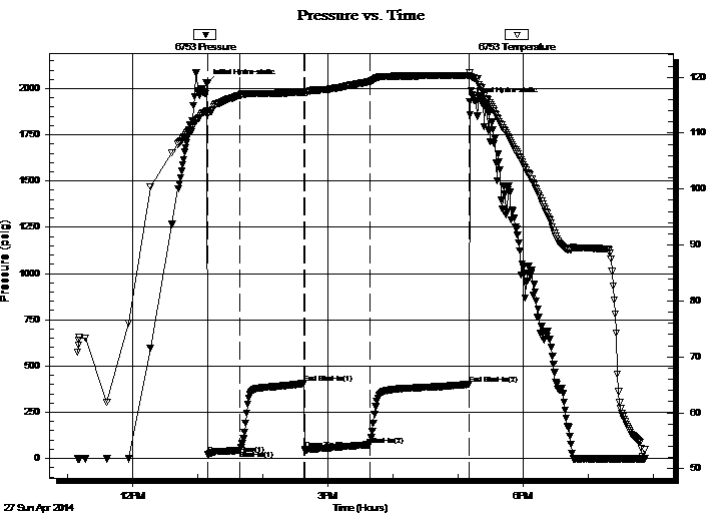
Start Time: 11:09:05

End Time: 19:51:45

Time On Btm: 2014.04.27 @ 13:08:15

Time Off Btm: 2014.04.27 @ 17:10:30

TEST COMMENT: 30 - IF - Surface blow built up to 8"
60 - ISI - No Return
60 - FF - Surface blow built to bottom of the bucket in 23 mins.
90 - FSI - No Return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2026.26	113.98	Initial Hydro-static
1	20.24	113.37	Open To Flow (1)
31	43.33	116.69	Shut-In(1)
90	406.80	117.28	End Shut-In(1)
91	48.19	117.22	Open To Flow (2)
150	74.21	119.24	Shut-In(2)
242	400.77	120.31	End Shut-In(2)
243	1930.88	120.84	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
65.00	OCM - 70M - 30o	0.34
92.00	Free Oil - 100o	1.29

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co., Inc.

23-4s-31w Rawlins, KS

250 N. Water, Ste 300
Wichita KS 67202

Alex #2-23

Job Ticket: 55216

DST#: 3

ATTN: Bob Stolzle

Test Start: 2014.04.27 @ 11:09:00

GENERAL INFORMATION:

Formation: **LKC H - J**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:08:45

Time Test Ended: 19:51:45

Interval: 4070.00 ft (KB) To 4170.00 ft (KB) (TVD)

Total Depth: 4170.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Test Type: Conventional Bottom Hole (Initial)

Tester: Royal Fisher

Unit No: #54

Reference Elevations: 2925.00 ft (KB)

2920.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8368

Inside

Press@RunDepth: psig @ 4071.00 ft (KB)

Start Date: 2014.04.27 End Date: 2014.04.27

Start Time: 11:09:05 End Time: 19:51:45

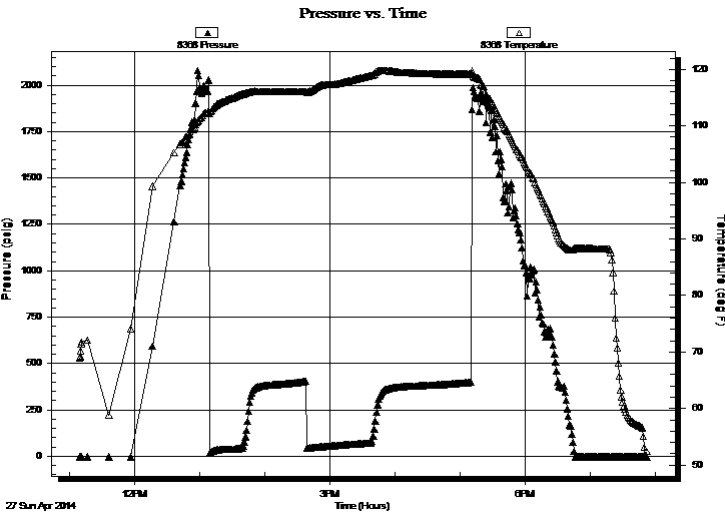
Capacity: 8000.00 psig

Last Calib.: 2014.04.27

Time On Btm:

Time Off Btm:

TEST COMMENT: 30 - IF - Surface blow built up to 8"
60 - ISI - No Return
60 - FF - Surface blow built to bottom of the bucket in 23 mins.
90 - FSI - No Return



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
65.00	OCM - 70M - 30o	0.34
92.00	Free Oil - 100o	1.29

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co., Inc.

23-4s-31w Rawlins,KS

250 N. Water, Ste 300
Wichita KS 67202

Alex #2-23

Job Ticket: 55216

DST#: 3

ATTN: Bob Stolzle

Test Start: 2014.04.27 @ 11:09:00

Tool Information

Drill Pipe:	Length: 3998.20 ft	Diameter: 3.80 inches	Volume: 56.08 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 62.69 ft	Diameter: 2.25 inches	Volume: 0.31 bbl	Weight to Pull Loose: 68000.00 lb
			<u>Total Volume: 56.39 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	12.89 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	4070.00 ft			Final 59000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	100.00 ft			
Tool Length:	122.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			4053.00	
Hydraulic tool	5.00			4058.00	
Safety Joint	3.00			4061.00	
Packer	4.00			4065.00	22.00 Bottom Of Top Packer
Packer	5.00			4070.00	
Stubb	1.00			4071.00	
Recorder	0.00	8368	Inside	4071.00	
Recorder	0.00	6753	Inside	4071.00	
Perforations	30.00			4101.00	
Change Over Sub	1.00			4102.00	
Drill Pipe	63.00			4165.00	
Change Over Sub	1.00			4166.00	
Bullnose	4.00			4170.00	100.00 Bottom Packers & Anchor

Total Tool Length: 122.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co., Inc.

23-4s-31w Rawlins,KS

250 N. Water, Ste 300
Wichita KS 67202

Alex #2-23

Job Ticket: 55216

DST#: 3

ATTN: Bob Stolzle

Test Start: 2014.04.27 @ 11:09:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

32 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.19 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
65.00	OCM - 70M - 30o	0.341
92.00	Free Oil - 100o	1.291

Total Length: 157.00 ft Total Volume: 1.632 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 473' Gas in pipe

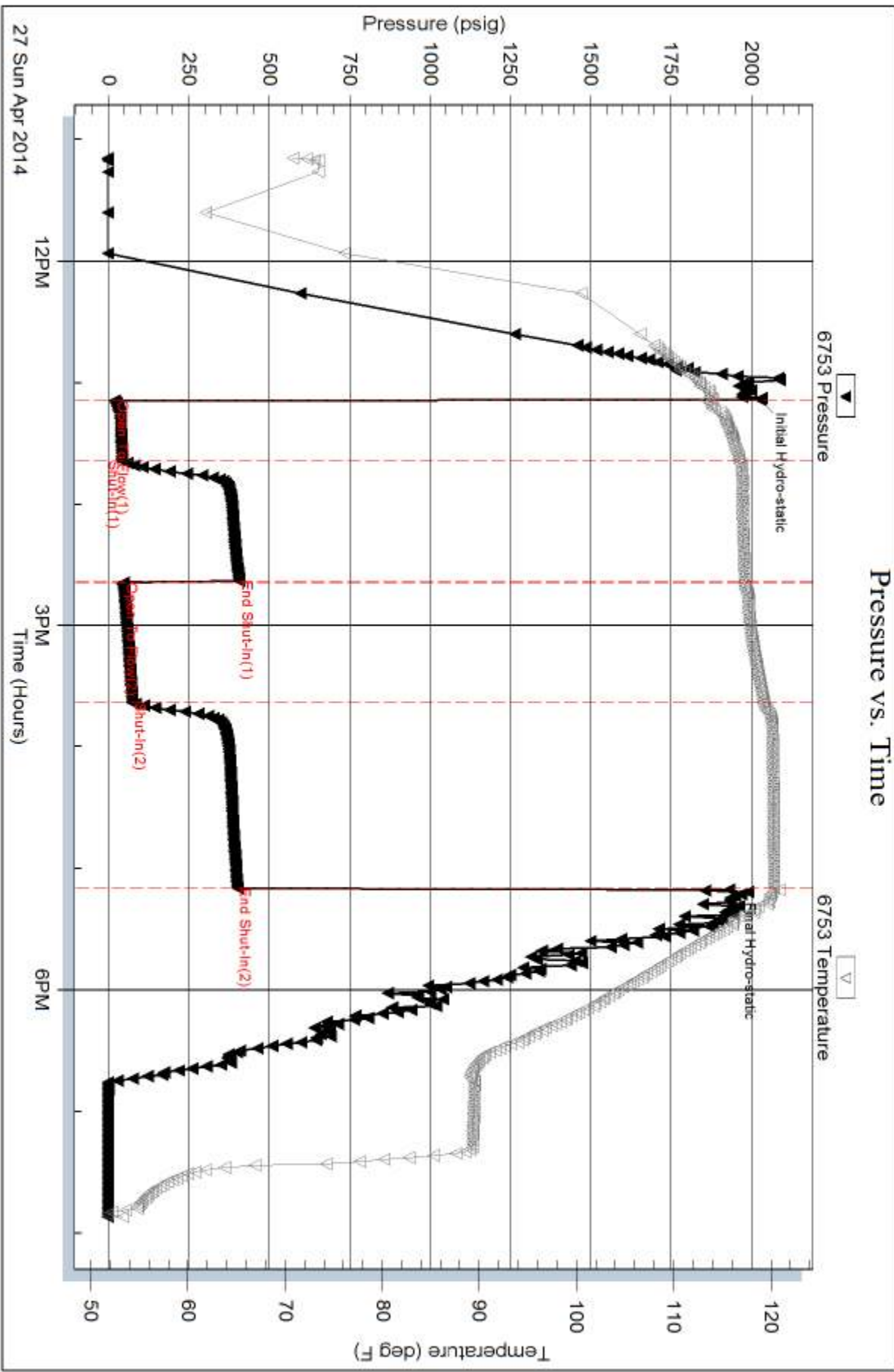
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Inside

Murfin Drilling Co., Inc.

Alex #2-23

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 55216

Printed: 2014.04.29 @ 10:29:14

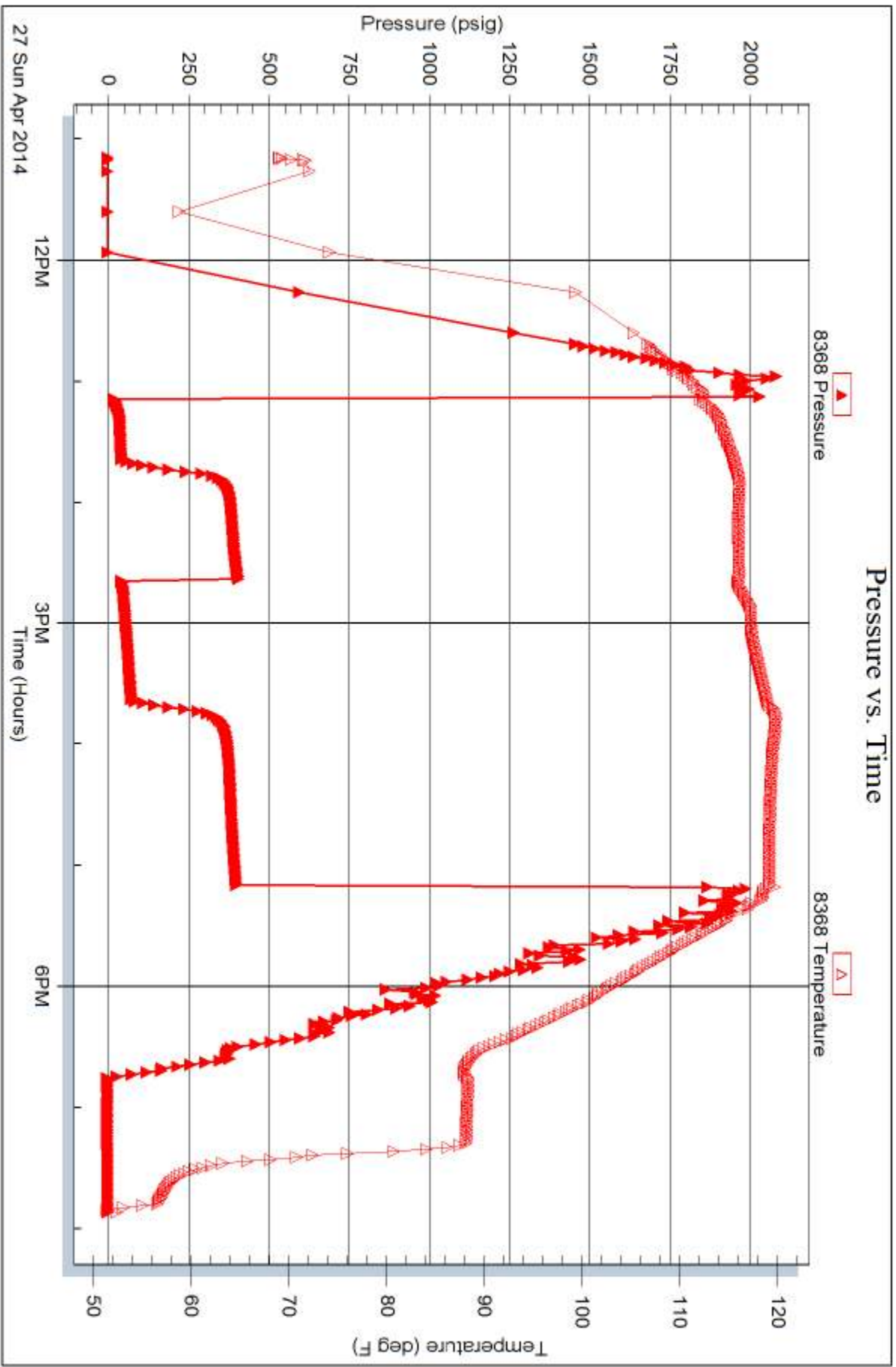
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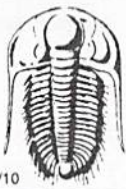
Inside

Murfin Drilling Co., Inc.

Alex #2-23

DST Test Number: 3





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 55214

Well Name & No. Alex #2-23 Test No. 1 Date 4-25-14
 Company Murfin Drilling Co., Inc. Elevation 2925 KB 2920 GL
 Address 250 N. Water, Ste 300 Wichita KS 67202
 Co. Rep / Geo. Bob Stolzle Rig Murfin #7
 Location: Sec. 23 Twp. 4S Rge. 31W Co. Rawlins State KS

Interval Tested 3922-4005 Zone Tested Toronto, Lans A + B
 Anchor Length 83' Drill Pipe Run 3840.31' Mud Wt. 9.2
 Top Packer Depth 3917 Drill Collars Run 62.69' Vis 56
 Bottom Packer Depth 3922 Wt. Pipe Run 0 WL 6.0
 Total Depth 4005 Chlorides 1300 ppm System LCM 5#
 Blow Description IF - Surface blow built to 4"
ISI - No ~~Return~~ Return
FF - Surface blow built to 6 1/2"
FSI - No Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>126'</u>	<u>OCHM</u>	<u>10</u>	<u>30</u>	<u>60</u>	
<u>126'</u>	<u>asmw</u>	<u>Spots</u>	<u>90</u>	<u>10</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 252' BHT 119°F Gravity _____ API RW 102 @ 66 °F Chlorides 80,000 ppm

(A) Initial Hydrostatic <u>1928</u>	<input checked="" type="checkbox"/> Test <u>1250</u>	T-On Location <u>10:50am</u>
(B) First Initial Flow <u>22</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>12:02pm</u>
(C) First Final Flow <u>72</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>2:39pm</u>
(D) Initial Shut-In <u>1253</u>	<input checked="" type="checkbox"/> Circ Sub <u>N/C</u>	T-Pulled <u>6:39pm</u>
(E) Second Initial Flow <u>84</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>9:30</u>
(F) Second Final Flow <u>132</u>	<input checked="" type="checkbox"/> Mileage <u>46 R/T</u> 71.30	Comments <u>Spots</u>
(G) Final Shut-In <u>1239</u>	<input type="checkbox"/> Sampler _____	
(H) Final Hydrostatic <u>1916</u>	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> Ruined Shale Packer _____
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Ruined Packer _____
Initial Shut-In <u>60</u>	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Extra Copies _____
Final Flow <u>60</u>	<input type="checkbox"/> Extra Recorder _____	Sub Total <u>0</u>
Final Shut-In <u>90</u>	<input type="checkbox"/> Day Standby _____	Total <u>1646.30</u>
	<input type="checkbox"/> Accessibility _____	MP/DST Disc't _____
	Sub Total <u>1646.30</u>	

Approved By _____ Our Representative Bob Stolzle

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. **55215**

Well Name & No. Alex #2-23 Test No. 2 Date 4-26-14
 Company Murfin Drilling Co., Inc. Elevation 2925 KB 2920 GL
 Address 250 N. Water, Ste 300 Wichita Ks 67202
 Co. Rep / Geo. Bob Stolzle Rig Murfin #7
 Location: Sec. 23 Twp. 4S Rge. 31W Co. Rawlins State KS

Interval Tested 4020-4060 Zone Tested LKC 'F' & 'G'
 Anchor Length 40' Drill Pipe Run 3934.68 Mud Wt. 9.1
 Top Packer Depth 4015 Drill Collars Run 62.69' Vis 52
 Bottom Packer Depth 4020 Wt. Pipe Run 6 WL 6.4
 Total Depth 4060 Chlorides 2,000 ppm System LCM 4#
 Blow Description IF - Surface blow built to bottom of bucket in 27 min.
ISI - Got a faint return 5min into and died off in 20 mins.
FF - Surface blow built to 11"
FSI - No Return

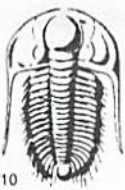
Rec	Feet of	%gas	%oil	%water	%mud
<u>25'</u>	<u>Free Oil</u>	<u>100</u>			
<u>169'</u>	<u>OSMW</u>	<u>spots</u>	<u>85</u>	<u>15</u>	
	<u>Gas in pipe = 184'</u>	<u>100</u>			

Rec Total 194' BHT 119°F Gravity 37 API RW 217 @ 85 °F Chlorides 27,000 ppm

(A) Initial Hydrostatic <u>1997</u>	<input checked="" type="checkbox"/> Test <u>1250</u>	T-On Location <u>8:57am</u>
(B) First Initial Flow <u>22</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>10:00am</u>
(C) First Final Flow <u>63</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>12:02pm</u>
(D) Initial Shut-In <u>255</u>	<input checked="" type="checkbox"/> Circ Sub <u>n/c</u>	T-Pulled <u>4:02pm</u>
(E) Second Initial Flow <u>68</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>6:57pm</u>
(F) Second Final Flow <u>104</u>	<input checked="" type="checkbox"/> Mileage <u>46 R/T</u> 71.30	Comments
(G) Final Shut-In <u>248</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>1964</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer
Initial Open <u>30</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Initial Shut-In <u>60</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Flow <u>60</u>	<input type="checkbox"/> Day Standby	Total <u>1646.30</u>
Final Shut-In <u>90</u>	<input type="checkbox"/> Accessibility	MP/DST Disc't

Sub Total 1646.30

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. **55216**

Well Name & No. Alex #2-23 Test No. 3 Date 4-27-14
 Company Martin Drilling Co., Inc. Elevation 2925 KB 2920 GL
 Address 250 N. Water, Ste 300 Wichita Ks 67202
 Co. Rep / Geo. Bob Stolzle Rig Martin #7
 Location: Sec. 23 Twp. 4S Rge. 31W Co. Rawlins State Ks

Interval Tested 4070 - 4170 Zone Tested H, I, J
 Anchor Length 100' Drill Pipe Run 3998.20 Mud Wt. 9.2
 Top Packer Depth 4065 Drill Collars Run 62.69' Vis 55
 Bottom Packer Depth 4070 Wt. Pipe Run 0 WL 7.2
 Total Depth 4170 Chlorides 2,000 ppm System LCM 4#

Blow Description IF - Surface blow built up to 8"
ISI - No return
FF - Surface blow built to bottom of bucket in 23 mins.
FSI - No return

Rec	Feet of	%gas	%oil	%water	%mud
<u>92'</u>	<u>Free Oil</u>	<u>100</u>			
<u>65'</u>	<u>OCM</u>	<u>30</u>		<u>70</u>	
	<u>473' Gas in Pipe</u>	<u>100</u>			

Rec Total 157' BHT 120°F Gravity 32 @ 60°F API RW @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 2026 Test 1250 T-On Location 10:45 am
 (B) First Initial Flow 20 Jars _____ T-Started 11:09 am
 (C) First Final Flow 43 Safety Joint 75 T-Open 1:08 pm
 (D) Initial Shut-In 407 Circ Sub N/C T-Pulled 5:08 pm
 (E) Second Initial Flow 48 Hourly Standby _____ T-Out 6:52 pm
 (F) Second Final Flow 74 Mileage 46 R/T 142.60 Comments Picked up tool 4-28-14
 (G) Final Shut-In 401 Sampler _____ on location 11:30 pm left
 (H) Final Hydrostatic 1931 Straddle _____ at 12:36 am 4-29-14
 Ruined Shale Packer _____
 Shale Packer _____
 Ruined Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby 1d 4.5h
 Accessibility _____

Initial Open 30
 Initial Shut-In 60
 Final Flow 60
 Final Shut-In 90
 Sub Total 1467.60
 Sub Total 800
 Total 2267.60
 MP/DST Disc't _____

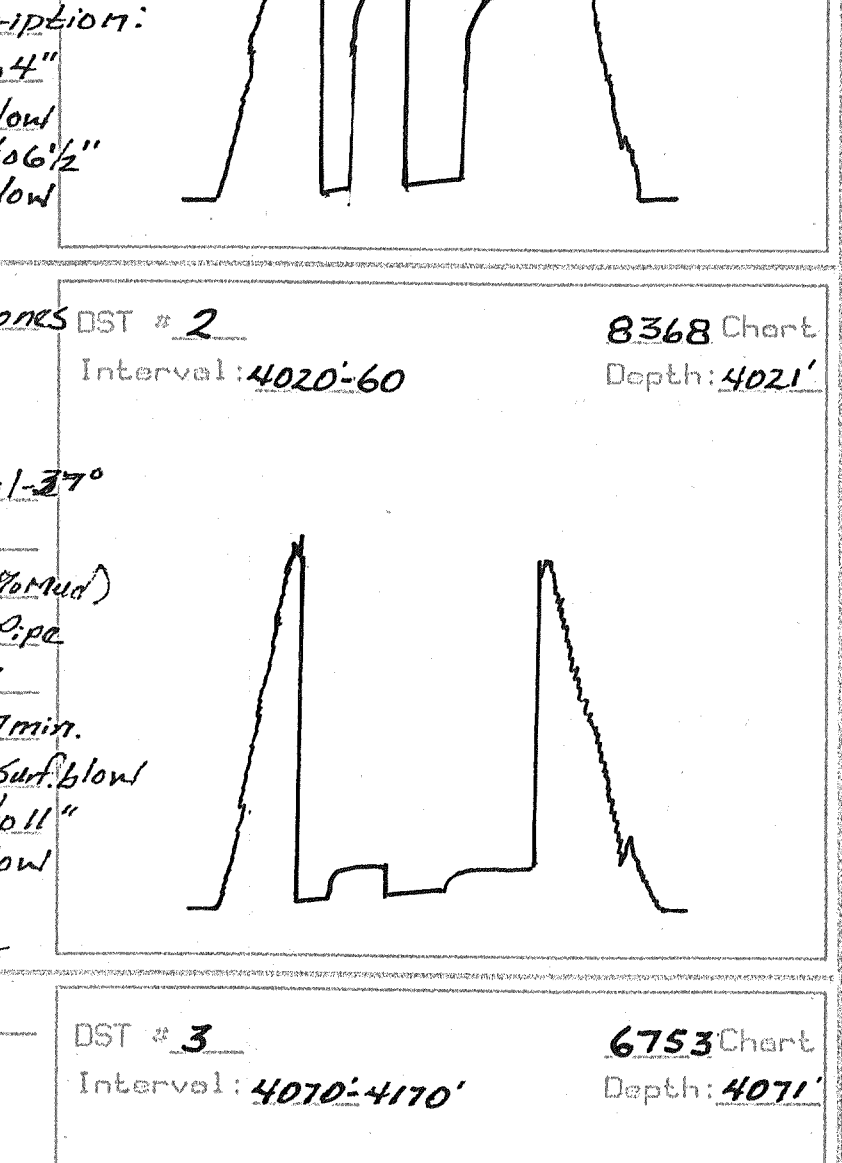
Approved By _____ Our Representative [Signature]

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.

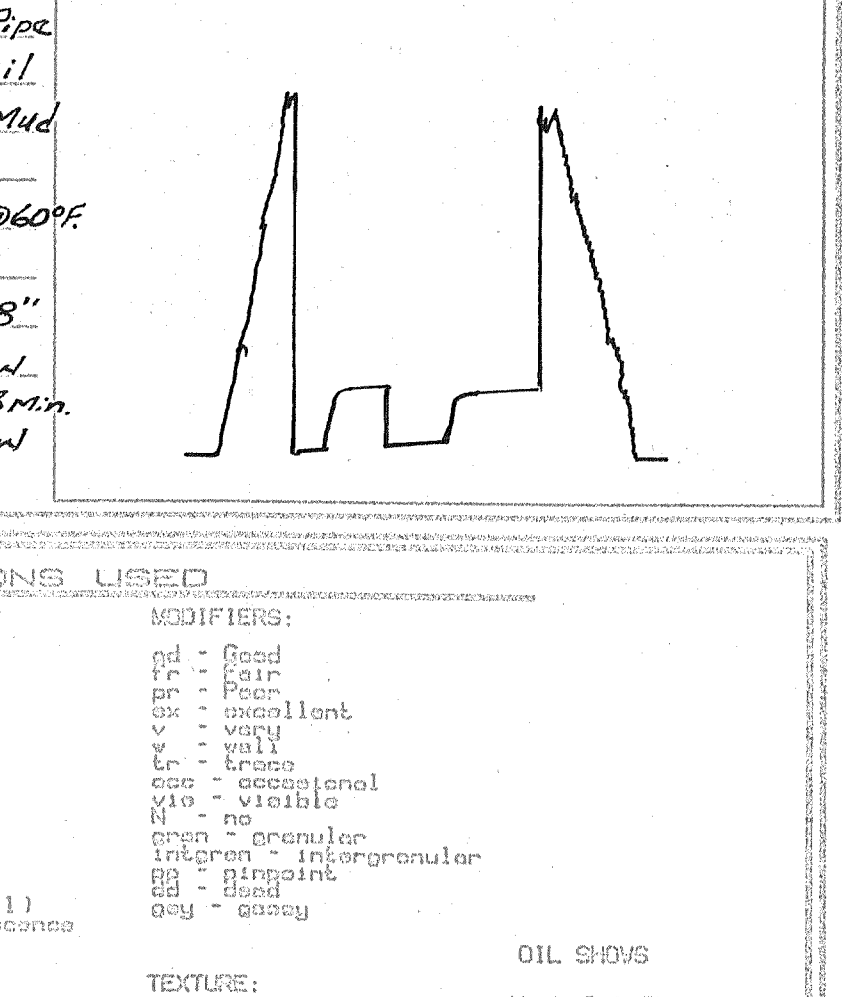
PROJECT: **Multi-Well Drilling Co., Ltd.**
 WELL NO.: **223**
 FIELD: **Alban**
 LOCATION: **140015417101244646464646**
 COUNTY: **Alban**
 TWP: **25** R. **45** S. **14** W.
 SECTION: **15-153-210-08-00-00**
 CASING RECORD: **2 3/4" 100' 200' 300' 400'**
 DATE: **2/19/2003**
 TIME: **10:00 AM**

PREPARED BY: **Robert Stolzle**
 DATE: **2/19/2003**
 SCALE: **1" = 100'**
 SHEET NO.: **223**
 OF **223**
 DRAWING NO.: **223**
 REVISIONS: **None**

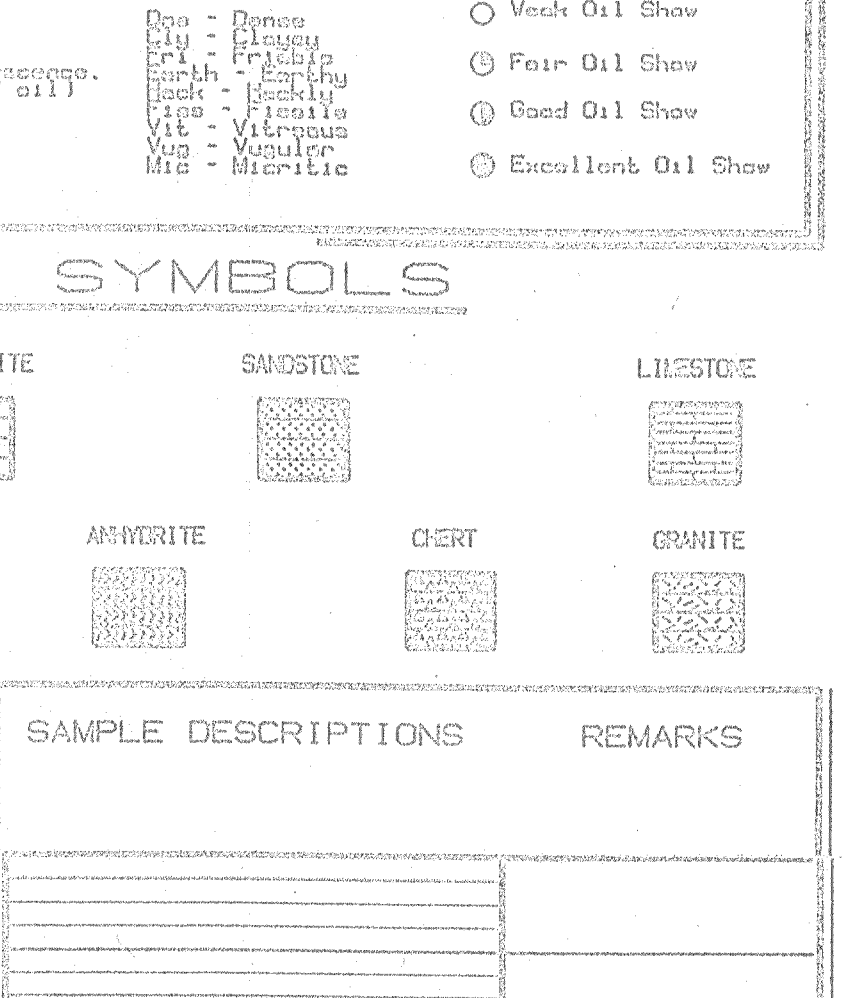
EDUCATIONAL DEGREE: **B.Sc. Geology**
 EMPLOYER: **Chemical Bank**
 POSITION: **Senior Geologist**
 ADDRESS: **4400 15th St. S.W. Calgary, Alberta T2C 2L5**
 PHONE: **403-243-0711**
 FAX: **403-243-0712**
 LICENSE NO.: **778**
 EXPIRES: **2004**



DST # 1 ZONE: **Toronto, Lansing A & B Zones**
 INTERVAL: **3922-4005'**
 PREPRESSURE: **1928 psi**
 1. Initial Hydrostatic: **1928 psi**
 2. Initial Flow: **0**
 3. Initial Flow: **End 30**
 4. Initial Shut-in: **End 60**
 5. Final Flow: **Start 0**
 6. Final Flow: **End 60**
 7. Final Shut-in: **End 90**
 8. Final Hydrostatic: **1916 psi**
 GHT: **1209 F**
 Rv: **1.02 @ 66°F**
 RECOVERY: **126' Oil/Water Cut Mud**
(10% Oil, 30% Water)
126' Oil Spotted Water Mud
(Oil Spots, 90% Water)
Total Recovery 252'
Blow Description:
I.F. - built to 4"
I.S.I. - No blow
F.F. - built to 6"
F.S.I. - No blow
Chlorides 80,000 ppm



DST # 2 ZONE: **Lansing-Kansas L & F Zones**
 INTERVAL: **4020-4060'**
 PREPRESSURE: **1997 psi**
 1. Initial Hydrostatic: **1997 psi**
 2. Initial Flow: **0**
 3. Initial Flow: **End 30**
 4. Initial Shut-in: **End 60**
 5. Final Flow: **Start 0**
 6. Final Flow: **End 60**
 7. Final Shut-in: **End 90**
 8. Final Hydrostatic: **1964 psi**
 GHT: **1192 F**
 Rv: **1.22 @ 87 F**
 RECOVERY: **169' Oil**
25' Gas in Pipe
(85% Water, 15% Mud)
Blow Desc.:
I.F. - B.O.B. 27 min
I.S.I. - No blow
F.F. - built to 11"
F.S.I. - No blow
Chlorides 27,000 ppm
37° gravity @ 60°F



DST # 3 ZONE: **L-KC H, J & K Zones**
 INTERVAL: **4070-4170'**
 PREPRESSURE: **2026 psi**
 1. Initial Hydrostatic: **2026 psi**
 2. Initial Flow: **0**
 3. Initial Flow: **End 30**
 4. Initial Shut-in: **End 60**
 5. Final Flow: **Start 0**
 6. Final Flow: **End 60**
 7. Final Shut-in: **End 90**
 8. Final Hydrostatic: **1931 psi**
 GHT: **1212 F**
 Rv: **1.02 @ 66°F**
 RECOVERY: **473' Gas in Pipe**
20' Clean Oil
65' Oil Cut Mud
(30% Oil)
32° gravity @ 60°F
Blow Desc.:
I.F. - built to 8"
I.S.I. - No blow
F.F. - B.O.B. 23 min
F.S.I. - No blow

ROCK TYPE SYMBOLS

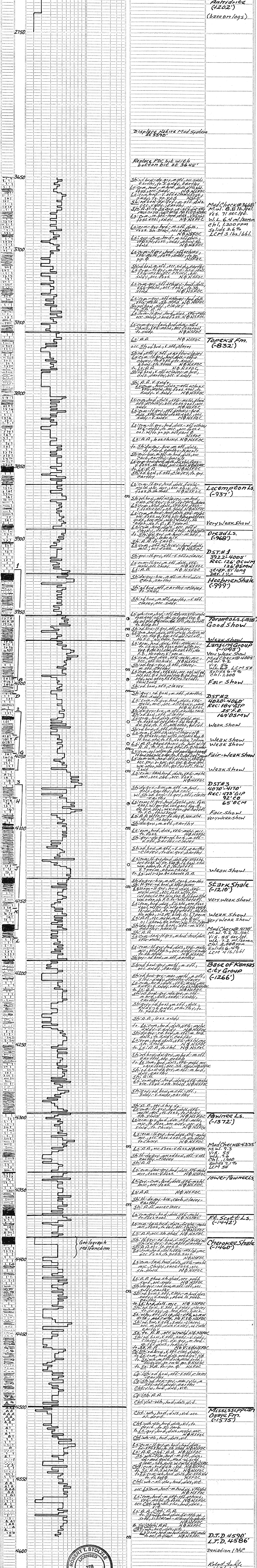
SHALE	CARBONACEOUS	QUARTZITE	SANDSTONE	LIMESTONE
SALT	GLAUCONITE	ORCHITE	AMPHIBOLITE	CHERT
				GRANITE

ABBREVIATIONS USED

FABRIC:	MODIFIERS:
Fm - Fine grained	sd - Sand
VF - Very fine grained	fr - Fair
Co - Coarse	ex - excellent
Cr - Crude	po - poor
Cl - Clay	me - medium
Ca - Clayey	wh - white
Ch - Cherty	gr - gray
Clm - Clayey limestone	bl - black
Clsh - Clayey shale	brn - brown
Clst - Clayey sandstone	blk - black
Clsl - Clayey siltstone	blk - black
Clss - Clayey sandstone	blk - black
Clstl - Clayey siltstone	blk - black
Clssl - Clayey siltstone	blk - black
Clssl - Clayey siltstone	blk - black

ROCK TYPE SYMBOLS

SHALE	CARBONACEOUS	QUARTZITE	SANDSTONE	LIMESTONE
SALT	GLAUCONITE	ORCHITE	AMPHIBOLITE	CHERT
				GRANITE





*acct
Prod-MG*

INVOICE

PO Box 93999
Southlake, TX 76092

Invoice Number: 142796

Invoice Date: Apr 21, 2014

Voice: (817) 546-7282

Page: 1

Fax: (817) 246-3361

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

Customer ID	Field Ticket #	Payment Terms	
Murfin	62041	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-01	Oakley	Apr 21, 2014	5/21/14

Quantity	Item	Description	Unit Price	Amount
1.00	WELL NAME	Alex #2-23		
200.00	CEMENT MATERIALS	Class A Common	17.90	3,580.00
4.00	CEMENT MATERIALS	Gel	23.40	93.60
7.00	CEMENT MATERIALS	Chloride	64.00	448.00
216.27	CEMENT SERVICE	Cubic Feet Charge	2.48	536.35
470.00	CEMENT SERVICE	Ton Mileage Charge	2.60	1,222.00
1.00	CEMENT SERVICE	Surface	1,512.25	1,512.25
50.00	CEMENT SERVICE	Pump Truck Mileage	7.70	385.00
1.00	CEMENT SERVICE	Swedge Manifold Rental	275.00	275.00
50.00	CEMENT SERVICE	Light Vehicle Mileage	4.40	220.00
1.00	CEMENT SUPERVISOR	Kelly Gabel		
1.00	EQUIPMENT OPERATOR	Wayne McGhghy		

Subtotal	8,272.20
Sales Tax	325.61
Total Invoice Amount	8,597.81
Payment/Credit Applied	
TOTAL	8,597.81

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

\$ 2,895.27

ONLY IF PAID ON OR BEFORE

May 16, 2014

OKMSR

ALLIED OIL & GAS SERVICES, LLC 062041

Federal Tax I.D. # 20-8651475

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

SERVICE POINT:
Oakley, KS

DATE <u>4-26-14</u>	SEC <u>23</u>	TWP. <u>4</u>	RANGE <u>31</u>	CALLED OUT	ON LOCATION	JOB START <u>8:00 AM</u>	JOB FINISH <u>8:30 PM</u>
LEASE <u>Clix</u>	WELL# <u>2-23</u>	LOCATION <u>Reford 7N 1E 8W</u>	COUNTY <u>Rawlins</u>		STATE <u>KS</u>		
OLD OR <u>NEW</u> (Circle one)			36 N 20th				

CONTRACTOR Murfin #7 OWNER Same

TYPE OF JOB Surface
 HOLE SIZE 12 1/4 T.D. 219
 CASING SIZE 8 5/8 DEPTH 219
 TUBING SIZE DEPTH
 DRILL PIPE DEPTH
 TOOL DEPTH
 PRES. MAX MINIMUM
 MEAS. LINE SHOE JOINT
 CEMENT LEFT IN CSG. 15'
 PERFS.
 DISPLACEMENT 13 bbl

CEMENT
 AMOUNT ORDERED 200 SKS COM 3% CC
290 gal

EQUIPMENT
 PUMP TRUCK CEMENTER Kelly Gabel
 # 422 HELPER Wayne McGibby
 BULK TRUCK
 # 891 + 808 DRIVER Ramiro (TWO)
 BULK TRUCK
 # DRIVER

COMMON 200 SKS @ 17.90 = 3580.00
 POZMIX @
 GEL 4 SKS @ 23.50 = 93.50
 CHLORIDE 7 SKS @ 64.00 = 448.00
 ASC @
 @
 @
 @
Material Total @ 4,121.50
(1,442.56 / 35%)
Services @
 @
 HANDLING 216.27 cu ft @ 2.50 = 536.35
 MILEAGE 9.4 ton x 50 x 2.00 = 122.00

REMARKS:

riggered up
mixed cement
displaced with water
shut in
Cement did solidate.
Thank You
Kelly & crew

DEPTH OF JOB 219
 PUMP TRUCK CHARGE 1512.35
 EXTRA FOOTAGE @
 MILEAGE MILV 50 @ 7.70 = 385.00
 MANIFOLD sludge @ 2.75 = 2.75
MILV 50 @ 4.40 = 220.00
 @
(1,452.71 / 35%) TOTAL 4,150.60

CHARGE TO: Murfin
 STREET _____
 CITY _____ STATE _____ ZIP _____

PLUG & FLOAT EQUIPMENT

_____	@ _____
_____	@ _____
_____	@ _____
_____	@ _____
_____	@ _____

0.70 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.

SALES TAX (if Any) _____
 TOTAL CHARGES 8,272.20
 DISCOUNT 2,895.27 (35%) IF PAID IN 30 DAYS
5,376.93 Net

PRINTED NAME Christophe Jans
 SIGNATURE Christophe Jans



CONSOLIDATED
Oil Well Services, LLC

REMIT TO
Consolidated Oil Well Services, LLC
Dept. 970
P.O. Box 4346
Houston, TX 77210-4346

MAIN OFFICE
P.O. Box 884
Chanute, KS 66720
620/431-9210 • 1-800/467-8676
Fax 620/431-0012

INVOICE

Invoice # 267804

Invoice Date: 04/30/2014 Terms: 10/10/30,n/30

Page 1

MURFIN DRILLING
P.O. BOX 288
RUSSELL KS 67665
() -

ALEX 2-23
46876
23-48-31W
04-30-2014
KS

USED FOR IC 103
APPROVED JH
FH

Part Number	Description	Qty	Unit Price	Total
1104D	CLASS "A" CEMENT CMD	300.00	27.9200	8376.00
1107	FLO-SEAL (25#)	150.00	2.9700	445.50
1110A	KOL SEAL (50# BAG)	1000.00	.5600	560.00
1126	OIL WELL CEMENT	200.00	23.7000	4740.00
1142A	KCL SUB MB6875 CC3107 (1	2.00	41.1000	82.20
1144G	MUD FLUSH (SALE)	500.00	1.0000	500.00
4104	CEMENT BASKET 5 1/2"	3.00	290.0000	870.00
4136	TURBOLIZER 5 1/2"	15.00	75.7500	1136.25
4159	FLOAT SHOE AFU 5 1/2"	1.00	433.7500	433.75
4310	ROTATING HEAD	1.00	200.0000	200.00
4315	ROTATING SCRATCHERS	10.00	94.5000	945.00
4454	5 1/2" LATCH DOWN PLUG	1.00	567.0000	567.00

Sublet Performed	Description	Total
9996-130	CEMENT MATERIAL DISCOUNT	-1885.57
9995-130	CEMENT EQUIPMENT DISCOUNT	-618.97

Description	Hours	Unit Price	Total
T-118 SINGLE PUMP	1.00	3175.00	3175.00
T-118 EQUIPMENT MILEAGE (ONE WAY)	65.00	5.25	341.25
T-127 TON MILEAGE DELIVERY	1.00	2673.45	2673.45

Amount Due 26534.99 if paid after 05/30/2014

Parts:	18855.70	Freight:	.00	Tax:	1340.63	AR	23881.49
Labor:	.00	Misc:	.00	Total:	23881.49		
Sublt:	-2504.54	Supplies:	.00	Change:	.00		

Signed _____

Date _____

BARTLESVILLE, OK 918/338-0808 EL DORADO, KS 316/322-7022 EUREKA, KS 620/583-7664 PONCA CITY, OK 580/762-2303 OAKLEY, KS 785/672-8822 OTTAWA, KS 785/242-4044 THAYER, KS 620/839-5269 GILLETTE, WY 307/686-4914 CUSHING, OK 918/225-2650



CONSOLIDATED
Oil Well Services, LLC

267804

TICKET NUMBER 46876

LOCATION Oakley, KS

FOREMAN Mikes Shea

Walt D. Mohr

PO Box 884, Chanute, KS 66720
620-431-9210 or 800-467-8676

FIELD TICKET & TREATMENT REPORT
CEMENT

KS

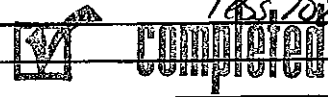
DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
4-30-14	5406	Alga #2-23	23	45	31W	Rawlins
CUSTOMER <u>Martin Drilling</u>			Reaper 7N 1E 8N 22W N.S.			
MAILING ADDRESS			TRUCK #	DRIVER	TRUCK #	DRIVER
CITY			STATE	ZIP CODE		
			587118	Judge L		
			5297127	Dale R		

JOB TYPE Long String HOLE SIZE 7 7/8 HOLE DEPTH 4590 CASING SIZE & WEIGHT 52" 15.5#
 CASING DEPTH 4585 DRILL PIPE _____ TUBING _____ OTHER _____
 SLURRY WEIGHT 10.7/138 SLURRY VOL 3.0/1.42 WATER gal/sk _____ CEMENT LEFT in CASING 24.02'
 DISPLACEMENT 114 lbs DISPLACEMENT PSI _____ MIX PSI _____ RATE _____

REMARKS: Safety meeting and rig up on Martin drilling rig #7 float equiptman
Turbulizes on 50's # 1, 3, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 45, 53 Baskets on 50's #
16, 45, 53 109 total 50's. Run casing to bottom Circulate casing 1 hr with
rotator. Pump mud flush mix 250shs CMD with 1/2# flo seal tailed in with
200shs OWC with 5# Kolsred shut down clear pump lines release plug
displace 110 bbls water with 1200 psi 1/2" plug land @ 1200 psi. A. d. not
held left shut in with 750 psi. Cement did circulate 20 bbls top of

30shs RH 20shs MA Thanks Mikes & crew

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401C	1	PUMP CHARGE	3175. ⁰⁰	3175. ⁰⁰ ✓
5406	605	MILEAGE	5.25	3175. ⁰⁰ ✓
5407A	23.5 tons	ton Mileage delivery	1.75	2673.45 ✓
1104A	300 shs	CMD cement	27.92	8376. ⁰⁰ ✓
1107	150 #	Flo seal	2.97	445.50 ✓
1110A	1000 #	Kolsred	1.56	560. ⁰⁰ ✓
1126	200 shs	OWC cement	23.70	4740. ⁰⁰ ✓
1142A	2 gal	NCL	41.00	82.20 ✓
1144G	300 gal	Mud flush	1. ⁰⁰	500. ⁰⁰ ✓
4104	3	5 1/2" Baskets	290. ⁰⁰	870. ⁰⁰ ✓
4136	15	5 1/2" Turbulizer	75.75	1136.25 ✓
4159	1	5 1/2" AFU Float shoe	433.75	433.75 ✓
4310	1	Rotating head charge	200. ⁰⁰	200. ⁰⁰ ✓
4315	10	Rotating scratchers	94.50	945. ⁰⁰ ✓
4454	1	5 1/2" Latchdown plug	567. ⁰⁰	567. ⁰⁰ ✓
		Subtotal		25045.40 ✓
		10% discount		25045.4 ✓
		Subtotal		22540.86 ✓
		SALES TAX		1340.63 ✓
		ESTIMATED TOTAL		23881.49 ✓



Form 3737

AUTHORIZATION Buck Sulas TITLE _____ DATE _____

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form.

DRILLING REPORT - LOG TOPS
ALEX 2-23

Alex #2-23 1100' FSL 1710' FWL Sec. 23-4S-31W 2925' KB							Alex #1-23 660' FSL 900' FWL Sec. 23-4S-31W 2939' KB	
Formation	Sample top	Datum	Ref	Log tops	Datum	Ref	Log tops	Datum
Anhydrite	2690	+235	-10	2688	+237	-8	2694	+245
B/Anhydrite	2726	+199	-13	2720	+205	-7	2727	+212
Topeka	3757	-832	-11	3753	-828	-7	3760	-821
Heebner	3924	-999	-12	3919	-994	-7	3926	-987
Lansing	3970	-1045	-12	3966	-1041	-8	3972	-1033
Stark	4138	-1213	-14	4131	-1206	-7	4138	-1199
BKC	4191	-1266	-17	4182	-1257	-8	4188	-1249
Pawnee	4297	-1372	-10	4294	-1369	-7	4301	-1362
Cherokee	4385	-1460	-11	4380	-1455	-6	4388	-1449
Mississippi	4500	-1575	-10	4488	-1563	+2	4504	-1565
RTD	4590						4598	
LTD				4586			4602	