



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1214178
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: _____

1214178

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	Hobbs 2-2
Doc ID	1214178

All Electric Logs Run

dual induction
dual compensated
microresistivity
borehole compensated



DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company**

250 N Water STE 300
Wichita KS 67202

ATTN: Charles Schmaltz

Hobbs #2-2

2-11s-23w Trego,KS

Start Date: 2014.04.05 @ 15:01:27

End Date: 2014.04.05 @ 23:37:27

Job Ticket #: 57557 DST #: 1

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

Printed: 2014.04.10 @ 08:52:35

Murfin Drilling Company
2-11s-23w Trego,KS
Hobbs #2-2
DST # 1
LKC B-F
2014.04.05



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Company

2-11s-23w Trego,KS

250 N Water STE 300
Wichita KS 67202

Hobbs #2-2

Job Ticket: 57557

DST#: 1

ATTN: Charles Schmaltz

Test Start: 2014.04.05 @ 15:01:27

GENERAL INFORMATION:

Formation: **LKC B-F**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:30:37

Time Test Ended: 23:37:27

Test Type: Conventional Bottom Hole (Initial)

Tester: Tate Lang

Unit No: 49

Interval: 6718.00 ft (KB) To 3785.00 ft (KB) (TVD)

Reference Elevations: 2335.00 ft (KB)

Total Depth: 3785.00 ft (KB) (TVD)

2330.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8898 Outside

Press@RunDepth: 133.87 psig @ 3720.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.04.05

End Date:

2014.04.05

Last Calib.:

2014.04.05

Start Time: 15:01:28

End Time:

23:37:27

Time On Btm:

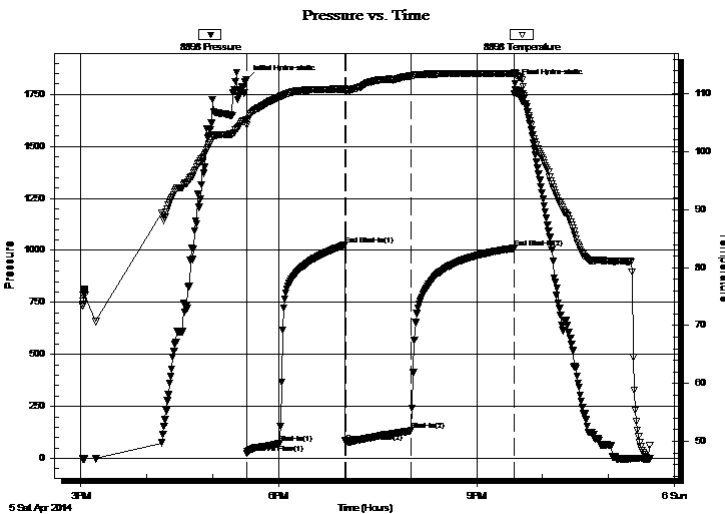
2014.04.05 @ 17:30:27

Time Off Btm:

2014.04.05 @ 21:34:57

TEST COMMENT: B.O.B. In 8 mins
Weak surface blow back built to 3 1/4" died back to 3"
B.O.B. In 7 mins
Fari surface blow built to 6" died back to 3"

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1822.34	105.50	Initial Hydro-static
1	25.40	104.60	Open To Flow (1)
30	71.12	109.39	Shut-In(1)
90	1026.60	110.85	End Shut-In(1)
91	79.53	110.62	Open To Flow (2)
150	133.87	113.07	Shut-In(2)
244	1010.49	113.53	End Shut-In(2)
245	1802.06	113.69	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
115.00	10%G 20%O 70%M	0.57
60.00	30%G 20%O 50%M	0.84
110.00	50%G 50%O	1.54
0.00	1150 GIP	0.00

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Company

250 N Water STE 300
Wichita KS 67202

ATTN: Charles Schmalz

2-11s-23w Trego,KS

Hobbs #2-2

Job Ticket: 57557

DST#: 1

Test Start: 2014.04.05 @ 15:01:27

GENERAL INFORMATION:

Formation: **LKC B-F**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:30:37

Time Test Ended: 23:37:27

Test Type: Conventional Bottom Hole (Initial)

Tester: Tate Lang

Unit No: 49

Interval: 6718.00 ft (KB) To 3785.00 ft (KB) (TVD)

Total Depth: 3785.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2335.00 ft (KB)

2330.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8897

Inside

Press@RunDepth: psig @ 3720.00 ft (KB)

Start Date: 2014.04.05

End Date:

2014.04.05

Capacity: 8000.00 psig

Last Calib.:

2014.04.05

Start Time: 15:01:21

End Time:

23:37:20

Time On Btm:

Time Off Btm:

TEST COMMENT:

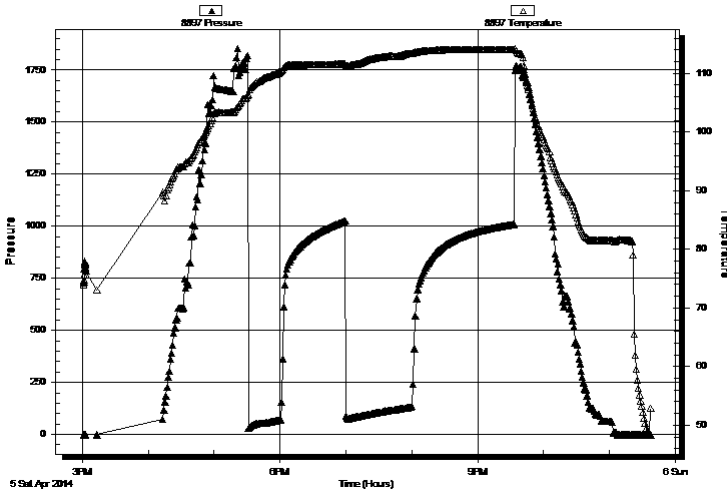
B.O.B. In 8 mins

Weak surface blow back built to 3 1/4" died back to 3"

B.O.B. In 7 mins

Fari surface blow built to 6" died back to 3"

Pressure vs. Time



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
115.00	10%G 20%O 70%M	0.57
60.00	30%G 20%O 50%M	0.84
110.00	50%G 50%O	1.54
0.00	1150 GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Company

2-11s-23w Trego,KS

250 N Water STE 300
Wichita KS 67202

Hobbs #2-2

Job Ticket: 57557

DST#: 1

ATTN: Charles Schmaltz

Test Start: 2014.04.05 @ 15:01:27

Tool Information

Drill Pipe:	Length: 3589.00 ft	Diameter: 3.80 inches	Volume: 50.34 bbl	Tool Weight: 2200.00 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: 115.00 ft	Diameter: 2.25 inches	Volume: 0.57 bbl	Weight to Pull Loose: 64000.00 lb
			<u>Total Volume: 50.91 bbl</u>	Tool Chased 5.00 ft
Drill Pipe Above KB:	13.00 ft			String Weight: Initial 54000.00 lb
Depth to Top Packer:	3718.00 ft			Final 56000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	67.00 ft			
Tool Length:	94.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Length (ft) Serial No. Position Depth (ft) Accum. Lengths

Shut In Tool	5.00			3696.00	
Hydraulic tool	5.00			3701.00	
Jars	5.00			3706.00	
Safety Joint	2.00			3708.00	
Packer	5.00			3713.00	27.00 Bottom Of Top Packer
Packer	5.00			3718.00	
Stubb	1.00			3719.00	
Perforations	1.00			3720.00	
Recorder	0.00	8897	Inside	3720.00	
Recorder	0.00	8898	Outside	3720.00	
Perforations	29.00			3749.00	
Change Over Sub	1.00			3750.00	
Drill Pipe	31.00			3781.00	
Change Over Sub	1.00			3782.00	
Bullnose	3.00			3785.00	67.00 Bottom Packers & Anchor

Total Tool Length: 94.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Company

2-11s-23w Trego,KS

250 N Water STE 300
Wichita KS 67202

Hobbs #2-2

Job Ticket: 57557

DST#: 1

ATTN: Charles Schmaltz

Test Start: 2014.04.05 @ 15:01:27

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

40 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.59 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1800.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
115.00	10%G 20%O 70%M	0.566
60.00	30%G 20%O 50%M	0.842
110.00	50%G 50%O	1.543
0.00	1150 GIP	0.000

Total Length: 285.00 ft

Total Volume: 2.951 bbl

Num Fluid Samples: 0

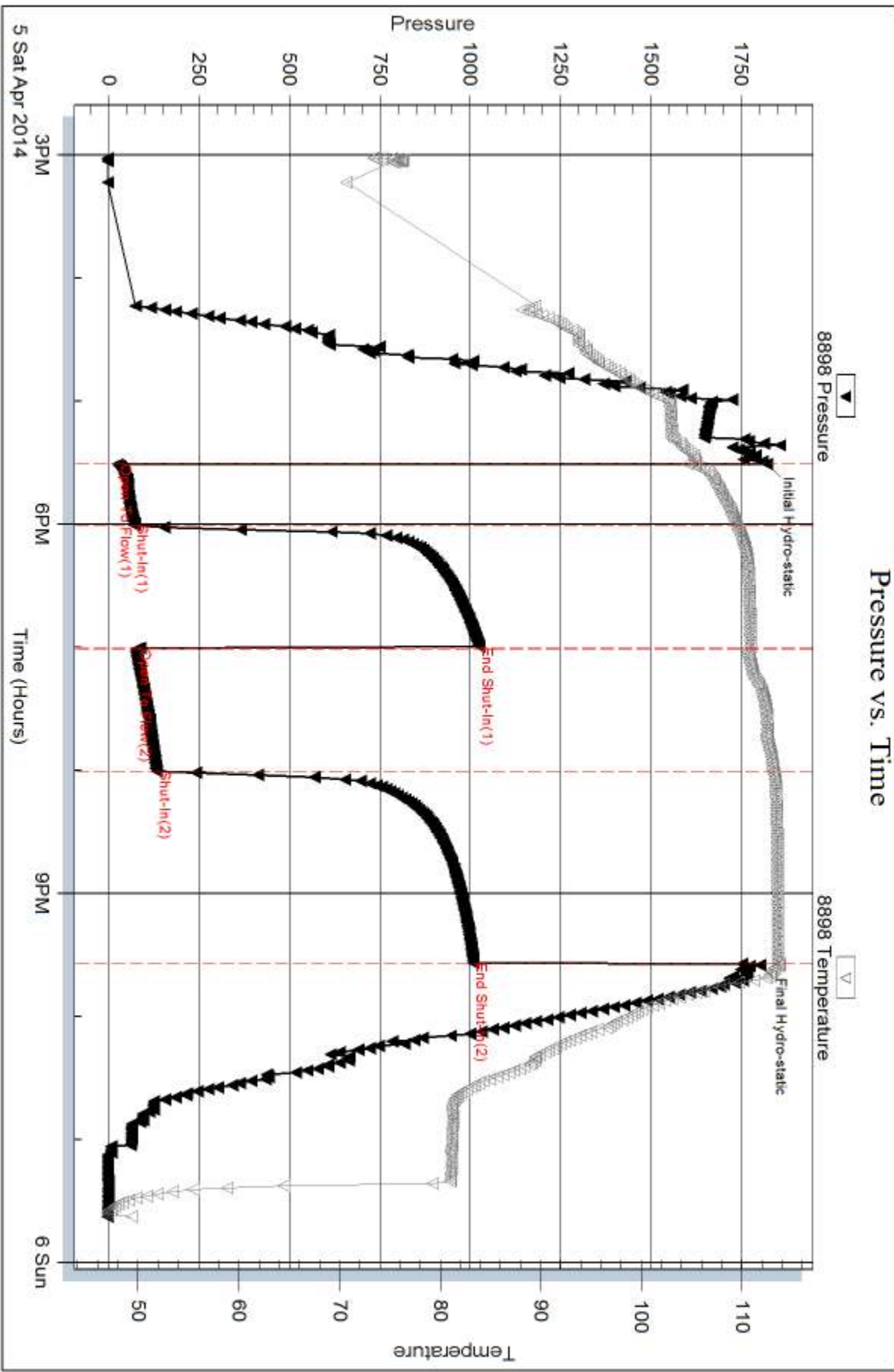
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



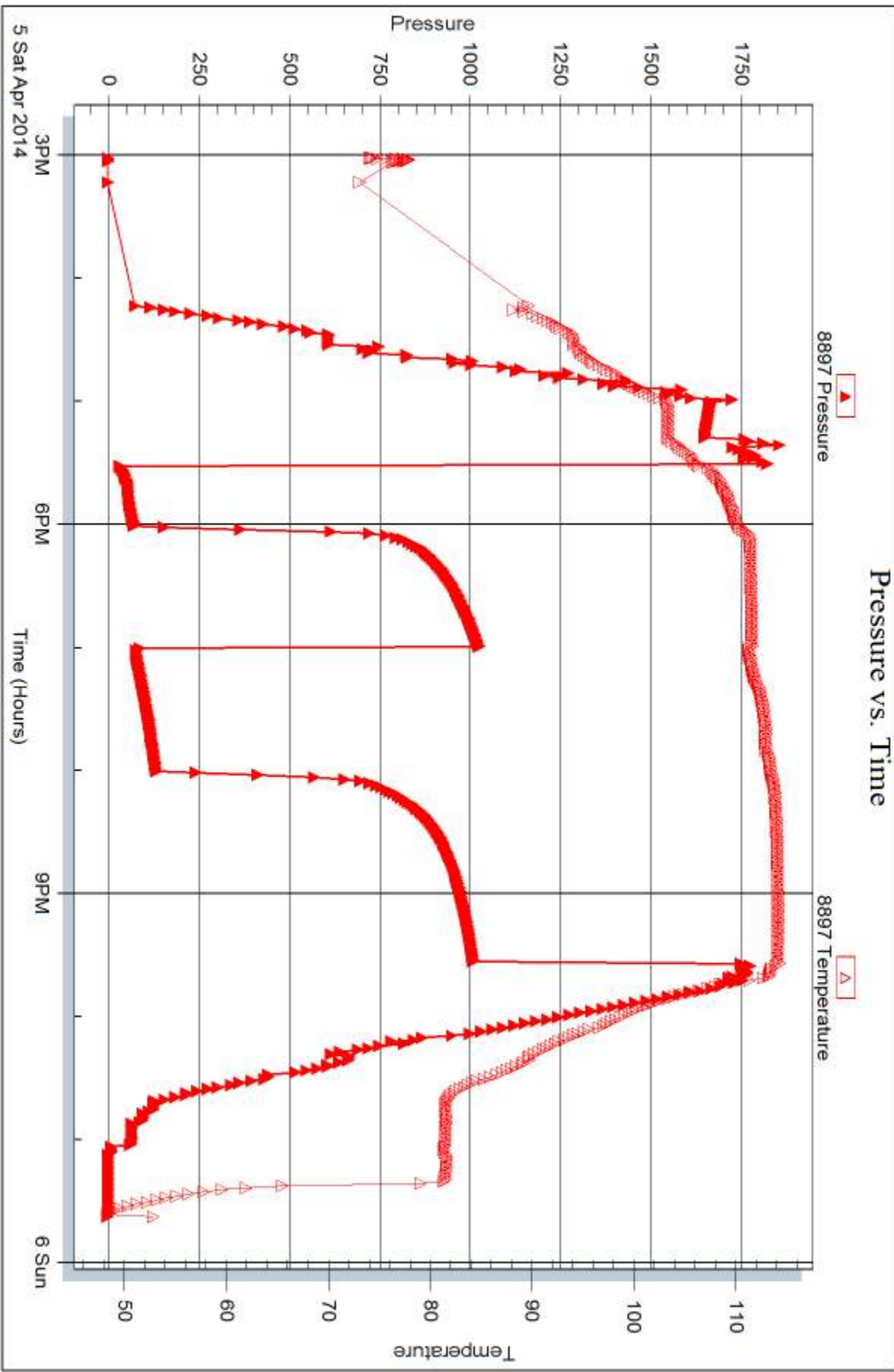
Serial #: 8897

Inside

Murfin Drilling Company

Hobbs #2-2

DST Test Number: 1



Tribble Testing, Inc

Ref. No: 57557

Printed: 2014.04.10 @ 08:52:37



DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company**

250 N Water STE 300
Wichita KS 67202

ATTN: Charles Schmaltz

Hobbs #2-2

2-11s-23w Trego,KS

Start Date: 2014.04.06 @ 16:40:03

End Date: 2014.04.07 @ 01:14:13

Job Ticket #: 57558 DST #: 2

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

Printed: 2014.04.10 @ 08:52:02



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Company

2-11s-23w Trego,KS

250 N Water STE 300
Wichita KS 67202

Hobbs #2-2

Job Ticket: 57558

DST#: 2

ATTN: Charles Schmaltz

Test Start: 2014.04.06 @ 16:40:03

GENERAL INFORMATION:

Formation: **LKC H-L**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:50:53

Time Test Ended: 01:14:13

Test Type: Conventional Bottom Hole (Reset)

Tester: Tate Lang

Unit No: 49

Interval: 3817.00 ft (KB) To 3925.00 ft (KB) (TVD)

Reference Elevations: 2335.00 ft (KB)

Total Depth: 3928.00 ft (KB) (TVD)

2330.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8898 Outside

Press@RunDepth: 105.83 psig @ 3827.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.04.06

End Date:

2014.04.07

Last Calib.:

2014.04.07

Start Time: 16:40:04

End Time:

01:14:13

Time On Btm:

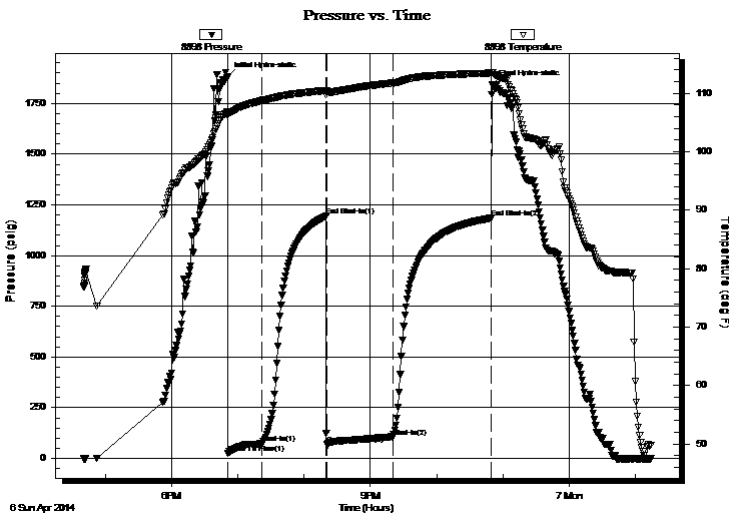
2014.04.06 @ 18:50:43

Time Off Btm:

2014.04.06 @ 22:50:42

TEST COMMENT: B.O.B. In 25 mins
Weak surface blow back built to 1/2" died back to a surface blow
B.O.B. In 4 mins
Fair surface blow back built to 5"

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1880.35	106.87	Initial Hydro-static
1	24.52	106.12	Open To Flow (1)
32	73.24	108.75	Shut-In(1)
90	1194.70	110.45	End Shut-In(1)
90	68.25	110.21	Open To Flow (2)
150	105.83	111.76	Shut-In(2)
239	1184.60	113.46	End Shut-In(2)
240	1842.66	113.57	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
115.00	25%G 25%O 50%M	0.57
60.00	20%G 50%O 30%M	0.84
45.00	30%G 70%O	0.63
0.00	675 GIP	0.00

Gas Rates

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

* Recovery from multiple tests



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Murfin Drilling Company

2-11s-23w Trego, KS

250 N Water STE 300
Wichita KS 67202

Hobbs #2-2

Job Ticket: 57558

DST#: 2

ATTN: Charles Schmaltz

Test Start: 2014.04.06 @ 16:40:03

GENERAL INFORMATION:

Formation: **LKC H-L**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:50:53

Time Test Ended: 01:14:13

Test Type: Conventional Bottom Hole (Reset)

Tester: Tate Lang

Unit No: 49

Interval: 3817.00 ft (KB) To 3925.00 ft (KB) (TVD)

Reference Elevations: 2335.00 ft (KB)

Total Depth: 3928.00 ft (KB) (TVD)

2330.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8897

Inside

Press@RunDepth: psig @ 3827.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.04.06 End Date: 2014.04.07

Last Calib.: 2014.04.07

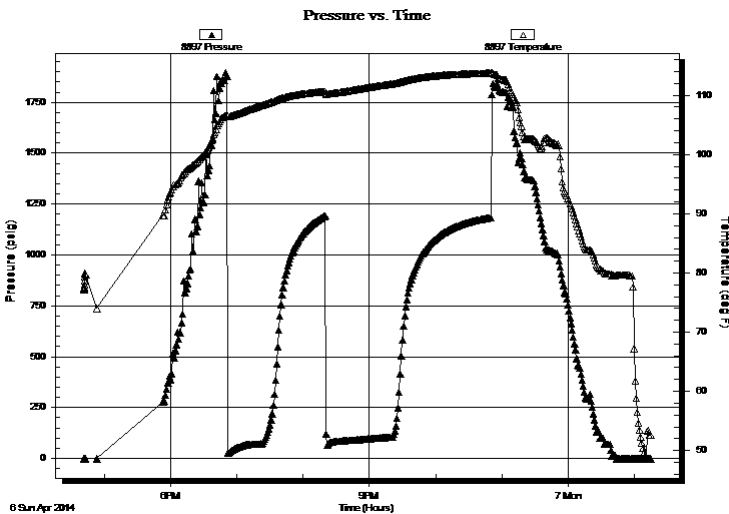
Start Time: 16:40:53 End Time: 01:15:02

Time On Btm:

Time Off Btm:

TEST COMMENT: B.O.B. In 25 mins
Weak surface blow back built to 1/2" died back to a surface blow
B.O.B. In 4 mins
Fair surface blow back built to 5"

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
115.00	25%G 25%O 50%M	0.57
60.00	20%G 50%O 30%M	0.84
45.00	30%G 70%O	0.63
0.00	675 GIP	0.00

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Company

2-11s-23w Trego,KS

250 N Water STE 300
Wichita KS 67202

Hobbs #2-2

Job Ticket: 57558

DST#: 2

ATTN: Charles Schmaltz

Test Start: 2014.04.06 @ 16:40:03

Tool Information

Drill Pipe:	Length: 3683.00 ft	Diameter: 3.80 inches	Volume: 51.66 bbl	Tool Weight: 2200.00 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: 115.00 ft	Diameter: 2.25 inches	Volume: 0.57 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 52.23 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial 54000.00 lb
Depth to Top Packer:	3817.00 ft			Final 55000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	108.00 ft			
Tool Length:	135.00 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			3795.00	
Hydraulic tool	5.00			3800.00	
Jars	5.00			3805.00	
Safety Joint	2.00			3807.00	
Packer	5.00			3812.00	27.00 Bottom Of Top Packer
Packer	5.00			3817.00	
Stubb	1.00			3818.00	
Perforations	8.00			3826.00	
Perforations	1.00			3827.00	
Recorder	0.00	8897	Inside	3827.00	
Recorder	0.00	8898	Outside	3827.00	
Change Over Sub	1.00			3828.00	
Drill Pipe	31.00			3859.00	
Drill Pipe	62.00			3921.00	
Change Over Sub	1.00			3922.00	
Bullnose	3.00			3925.00	108.00 Bottom Packers & Anchor
Total Tool Length:	135.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Company

2-11s-23w Trego,KS

250 N Water STE 300
Wichita KS 67202

Hobbs #2-2

Job Ticket: 57558

DST#: 2

ATTN: Charles Schmaltz

Test Start: 2014.04.06 @ 16:40:03

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: 5.59 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
115.00	25%G 25%O 50%M	0.566
60.00	20%G 50%O 30%M	0.842
45.00	30%G 70%O	0.631
0.00	675 GIP	0.000

Total Length: 220.00 ft

Total Volume: 2.039 bbl

Num Fluid Samples: 0

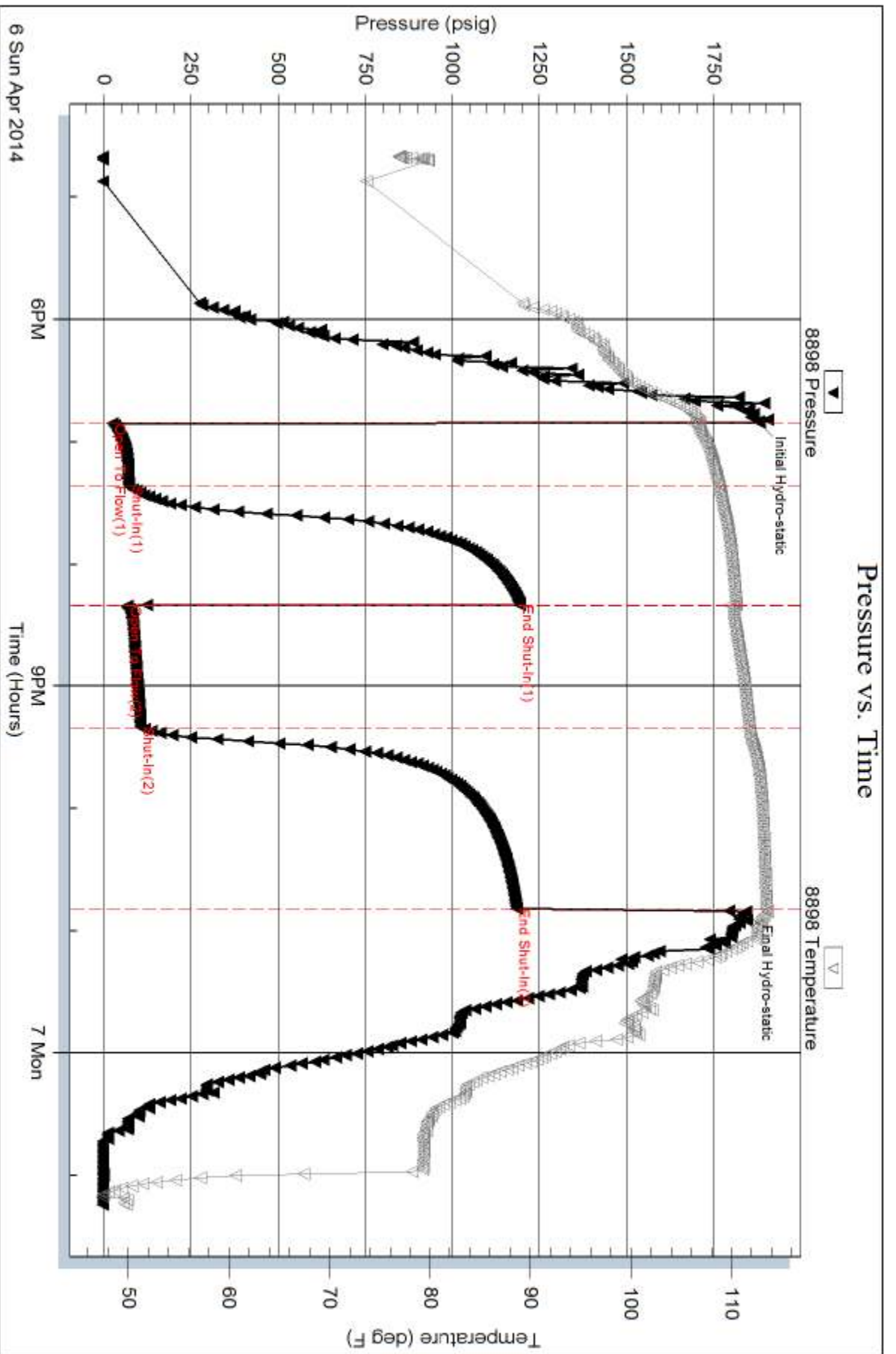
Num Gas Bombs: 0

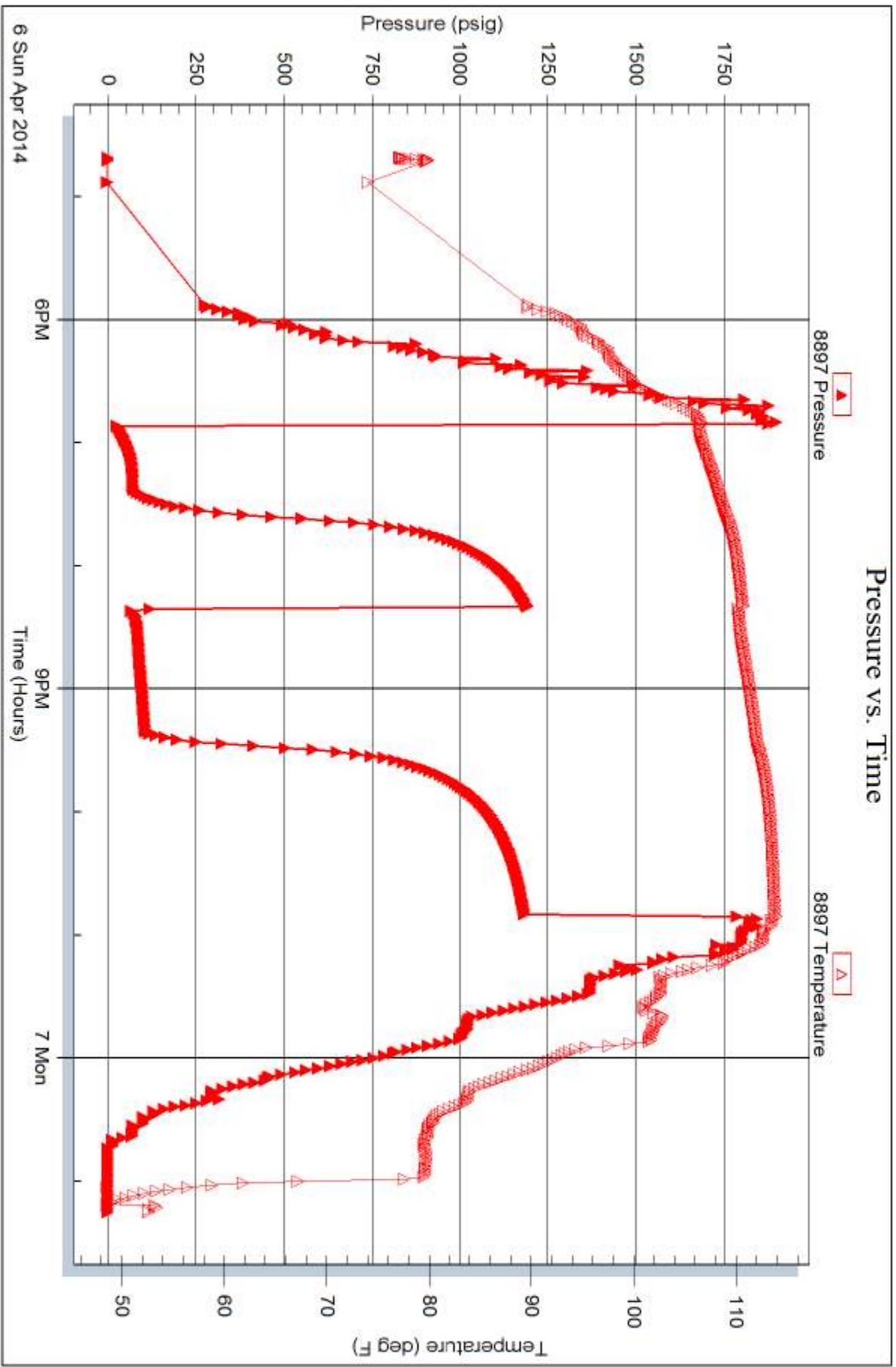
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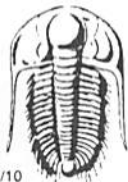
Laboratory Name:

Laboratory Location:

Recovery Comments:







TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 57557

Well Name & No. Hobbs #2-2 Test No. 1 Date 4-5-14
 Company Murfin Drilling Company Elevation 2335 KB 2230 GL
 Address 250 N Water STE 300 Wichita KS 67202
 Co. Rep / Geo. Charles Schmalz Rig MurFin #24
 Location: Sec. 2 Twp. 11S Rge. 24W Co. Trego State KS

Interval Tested 3718 3785 Zone Tested Lns B-F
 Anchor Length 67 Drill Pipe Run 3589 Mud Wt. 9.0
 Top Packer Depth 3718 Drill Collars Run 115 Vis 54
 Bottom Packer Depth 3718 Wt. Pipe Run 0 WL 3.6
 Total Depth 3785 Chlorides 1800 ppm System LCM 2nd

Blow Description B.O.B. IN 8mins
(weak surface blow back built to 3/4 in died back to 3 in)
B.O.B. IN 7mins
Fair surface blow back built to 6 in died back to 3 in

Rec	Feet of	%gas	%oil	%water	%mud
<u>115</u>	<u>960 CM</u>	<u>10</u>	<u>20</u>	<u>10</u>	<u>10</u>
<u>60</u>	<u>60 CM</u>	<u>30</u>	<u>20</u>	<u>50</u>	<u>50</u>
<u>110</u>	<u>60</u>	<u>50</u>	<u>50</u>		
<u>0</u>	<u>1150 GIR</u>	<u>100</u>			

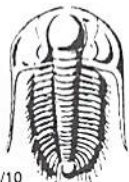
Rec Total 285 BHT 113 Gravity 40 API RW @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 1822 Test 1150 T-On Location 18'20
 (B) First Initial Flow 25 Jars 250 T-Started 5:01
 (C) First Final Flow 71 Safety Joint 75 T-Open 17:31
 (D) Initial Shut-In 1027 Circ Sub _____ T-Pulled 21:31
 (E) Second Initial Flow 80 Hourly Standby _____ T-Out 23:37
 (F) Second Final Flow 134 Mileage 88 RT 136.40 Comments _____
 (G) Final Shut-In 1010 Sampler _____
 (H) Final Hydrostatic 1802 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Extra Recorder _____ Sub Total 0
 Day Standby _____ Total 1611.40
 Accessibility _____ MP/DST Disc't _____

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

Sub Total 1611.40

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. 57558

Well Name & No. Hobbs # 2-2 Test No. 2 Date 4-6-14
 Company Murfin Drilling Company Elevation 2335 KB 2330 GL
 Address 250 N Water STE 300 Wichita KS 67202
 Co. Rep / Geo Charles Schmalz Rig Murfin # 24
 Location: Sec. 2 Twp. 11S Rge. 23W Co. Trego State KS

Interval Tested 3817- 3928.5 Zone Tested Lens H-2
 Anchor Length 108 Drill Pipe Run 3683 Mud Wt. 90
 Top Packer Depth 3812 Drill Collars Run 115 Vis 56
 Bottom Packer Depth 3817 Wt. Pipe Run 0 WL 516
 Total Depth 3928.5 Chlorides 2500 ppm System LCM 1 1/2 #

Blow Description B.O.B. IN 25 mins
Weed surface blow back built to 1/2 indied back to
B.O.B. IN 4 mins (surface blow)

Rec	Feet of	%gas	%oil	%water	%mud
<u>115</u>	<u>60 CM</u>	<u>25</u>	<u>25</u>	<u>50</u>	<u>50</u>
<u>60</u>	<u>MCGO</u>	<u>20</u>	<u>50</u>	<u>30</u>	<u>30</u>
<u>45</u>	<u>60</u>	<u>30</u>	<u>70</u>		
<u>0</u>	<u>675 GIP</u>	<u>100</u>			
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 220 BHT 113 Gravity 39 API RW - °F Chlorides - ppm
 Test 1150 T-On Location 15:18
 Jars 250 T-Started 16:40
 Safety Joint 75 T-Open 19:01
 Circ Sub T-Pulled 23:01
 Hourly Standby T-Out 01:14 (4-7-14)
 Mileage 136.40 Comments _____
 Sampler _____
 Straddle _____
 Shale Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____
 Sub Total 1611.40 MP/DST Disc't _____

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

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.

MURFIN DRILLING CO.
WELL # 24W

FIELD **SALINE VALLEY**
LOCATION **231D' FNL, 1648' FNL**

SECTION **2** TRIP **115** REEF **24W**

COUNTY **TREAS**
STATE **KANSAS**

LOG CONTROL **MORGAN MUD INC.** RIG # **24**
OPERATED BY **MURFIN DRILLING CO.** RIG # **24**
DATE **31 MAR 64** OPERATED **7 APRIL 64**

LOG CONTROL **TRILABITE TESTING CO.**
OPERATED BY **PIONEER ENERGY SER.**

LOG CONTROL **4029**
WELL DEPTH **4027**

LOG CONTROL **4029**
WELL DEPTH **4027**

LOG CONTROL **4029**
WELL DEPTH **4027**

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WELL DEPTH **4027**

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WELL DEPTH **4027**

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WELL DEPTH **4027**

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WELL DEPTH **4027**

LOG CONTROL **4029**
WELL DEPTH **4027**

LOG CONTROL **4029**
WELL DEPTH **4027**

LOG CONTROL **4029**
WELL DEPTH **4027**

DRILL STEM TESTS

No.	DEPTH	DIAMETER	DEPTH	DEPTH	DEPTH	DEPTH	DEPTH
1	3718'-3785'	2 1/2" - 3"	1027'	80' 13"	1010'	1822'	1150' GIP, 110' 60', 60' G&M, 115' 60' G&M
2	3811'-3945'	2 1/2" - 3"	1195'	65' 10"	1185'	1880'	675' GIP, 45' 60', 60' M&O, 115' 60' G&M

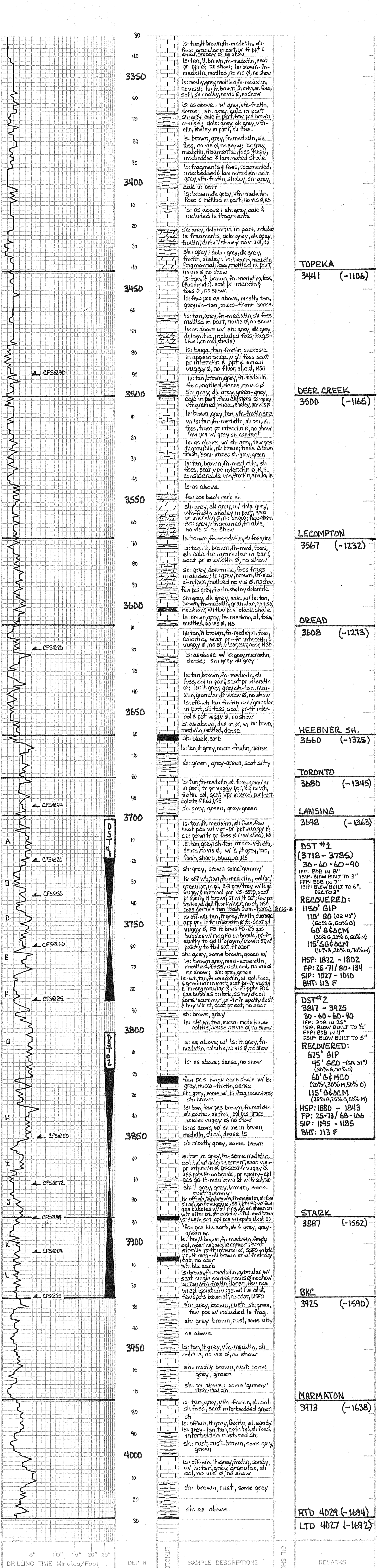
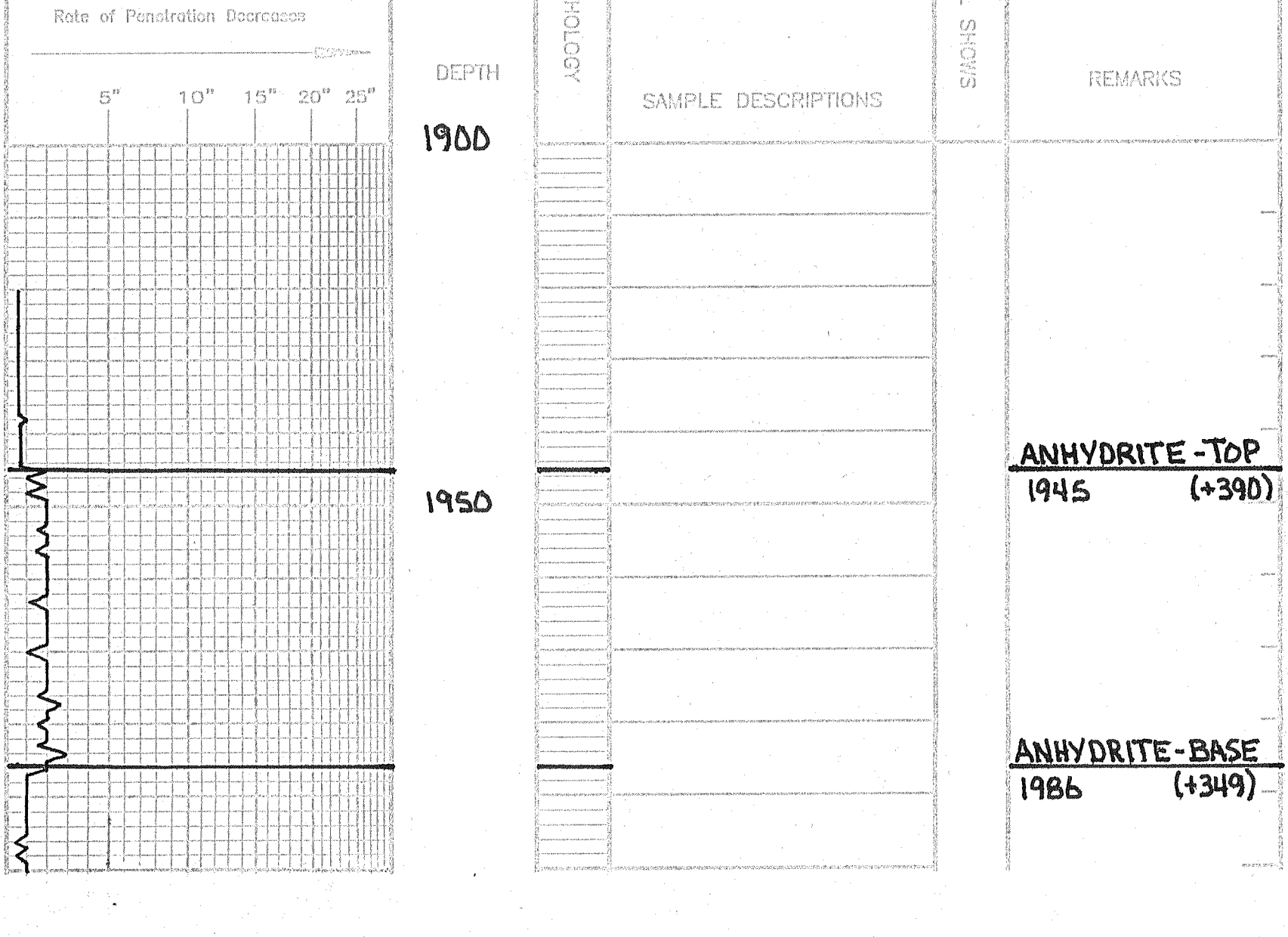
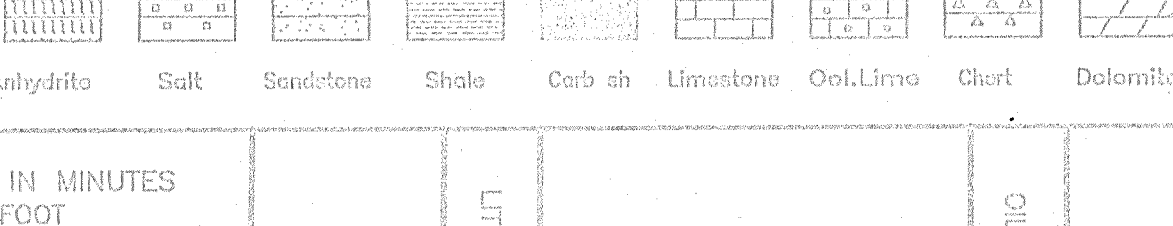
FORMATION TOPS & STRUCTURAL POSITIONS

FORMATION	DEPTH	DEPTH	DEPTH	DEPTH	DEPTH	DEPTH	DEPTH
ANHYDRITE - TOP	1945	1942	+393	+3			
ANHYDRITE - BASE	1986	1982	+353	+3			
TOPEKA	3441	3439	-104	-6			
DEER CREEK	3500	3498	-104	-7			
LECOMPTON	3567	3564	-129	-5			
DREAD	3608	3606	-129	-7			
HEEBNER	3660	3656	-132	-4			
TORONTO	3680	3678	-132	-4			
LANSING	3698	3694	-134	-3			
STARK	3887	3884	-159	-7			
MARMATON	3973	3970	-163	-7			
TOTAL DEPTH	4029	4027	-169	-7			

PIPE STRAP - 0.71 SHORT
DEVIATION SURVEYS:
@ 3765 - 1 1/4"
@ 4029 - 1 1/4"

NO.	SIZE	WEIGHT	TYPE	DEPTH	FEET	HOURS	PIPE STRAP
1	1 1/2"	REED	GAUC	219	219	3	0.71 SHORT
2	1 7/8"	HTC	GAUC	4029	3810	82 1/2	DEVIATION SURVEYS: @ 3765 - 1 1/4" @ 4029 - 1 1/4"

LEGEND



REMARKS

ANHYDRITE - TOP 1945 (+390)
ANHYDRITE - BASE 1986 (+349)
TOPEKA 3441 (-1106)
DEER CREEK 3500 (-1165)
LECOMPTON 3567 (-1232)
DREAD 3608 (-1273)
HEEBNER SH. 3660 (-1325)
TORONTO 3680 (-1345)
LANSING 3698 (-1363)
DST #1 (3718 - 3785) 30' - 60' - 60' - 90' IFP: BOB IN 8" ISIP: BLOW BUILT TO 3" FFP: BOB IN 7" FSIP: BLOW BUILT TO 6", DEC TO 3" RECOVERED: 115' GIP 110' 60' (OR 40') 60' G&M (20% G, 20% O, 50% M) 115' S&O (15% G, 20% O, 70% M) HSP: 1822 - 1802 FP: 25-71/80-134 SIP: 1027 - 1010 BHT: 113 F
DST #2 3817 - 3925 30' - 60' - 60' - 90' IFP: BOB IN 25" ISIP: BLOW BUILT TO 1/2" FFP: BOB IN 4" FSIP: BLOW BUILT TO 5" RECOVERED: 675' GIP 45' G&O (-GR 39") (20% G, 20% O) 60' G&M (20% G, 30% M, 50% O) 115' G&M (25% G, 25% O, 50% M) HSP: 1880 - 1843 FP: 25-73/68-106 SIP: 1195 - 1185 BHT: 113 F
STARK 3887 (-1552)
BKC 3925 (-1590)
MARMATON 3973 (-1638)
RTD 4029 (-1694) LTD 4027 (-1692)



*acct
Producing*

INVOICE

PO Box 93999
Southlake, TX 76092

Invoice Number: 142370

Invoice Date: Apr 1, 2014

Page: 1

Voice: (817) 546-7282
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	62600	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS2-01	Oakley	Apr 1, 2014	5/1/14

Quantity	Item	Description	Unit Price	Amount
1.00	WELL NAME	Hobbs #2-2		
180.00	CEMENT MATERIALS	Class A Common	17.90	3,222.00
6.00	CEMENT MATERIALS	Chloride	64.00	384.00
189.00	CEMENT SERVICE	Cubic Feet Charge	2.48	468.72
609.98	CEMENT SERVICE	Ton Mileage Charge	2.60	1,585.95
1.00	CEMENT SERVICE	Surface	1,512.25	1,512.25
70.00	CEMENT SERVICE	Pump Truck Mileage	7.70	539.00
1.00	CEMENT SERVICE	Manifold Rental	275.00	275.00
70.00	CEMENT SERVICE	Light Vehicle Mileage	4.40	308.00
1.00	CEMENT SUPERVISOR	Alan Ryan		
1.00	EQUIPMENT OPERATOR	Kevin Ryan		
1.00	OPERATOR ASSISTANT	Brandon Wilkinson		

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

\$ 2,903.22 ✓

ONLY IF PAID ON OR BEFORE
Apr 26, 2014

Subtotal	8,294.92
Sales Tax	275.86
Total Invoice Amount	8,570.78
Payment/Credit Applied	
TOTAL	8,570.78

OK

- 2903.22

5667.56

ALLIED OIL & GAS SERVICES, LLC 062600

Federal Tax I.D. # 20-8651475

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

SERVICE POINT:
Oakley KS

DATE <i>4/11/14</i>	SEC. <i>2</i>	TWP. <i>11</i>	RANGE <i>24</i>	CALLED OUT	ON LOCATION	JOB START <i>3:30A</i>	JOB FINISH <i>3:30P</i>
LEASE <i>Hobbs</i>	WELL.# <i>2-2</i>	LOCATION <i>Wakerney 6N x 0 Bld W x 0</i>			COUNTY <i>11</i>	STATE <i>KS</i>	
OLD OR NEW (Circle one) <i>NEW</i>			270-(4miles) 1/4 N E 57th				

CONTRACTOR *Mar Fin 24* OWNER *Same*

TYPE OF JOB <i>Surf Ce</i>	CEMENT
HOLE SIZE <i>12 1/4</i>	AMOUNT ORDERED <i>180 Cam 390cc</i>
CASING SIZE <i>8 5/8</i>	DEPTH <i>218</i>
TUBING SIZE	DEPTH
DRILL PIPE	DEPTH
TOOL	DEPTH
PRES. MAX	MINIMUM
MEAS. LINE	SHOE JOINT
CEMENT LEFT IN CSG. <i>15'</i>	
PERFS.	
DISPLACEMENT <i>12.93</i>	

EQUIPMENT					
PUMP TRUCK	CEMENTER	<i>Alan Ryan</i>			
# <i>422-181</i>	HELPER	<i>David Ryan</i>			
BULK TRUCK					
# <i>286</i>	DRIVER	<i>Brandon Wilkinson</i>			
BULK TRUCK					
#	DRIVER				

REMARKS:
*Rm Cg Granule, Max Cement, Displace
Cement 5' short, no
Cement did create*

SERVICE				
DEPTH OF JOB	<i>218'</i>			
PUMP TRUCK CHARGE	<i>1512.22</i>			
EXTRA FOOTAGE				
MILEAGE <i>70</i>	<i>722</i>	<i>519.00</i>		
MANIFOLD		<i>275.00</i>		
<i>Lite Vehicle 70</i>	<i>420</i>	<i>308.00</i>		

CHARGE TO: *Mar Fin Drilling*

STREET _____

CITY _____ STATE _____ ZIP _____

TOTAL *2634.25*

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 *Anthony Martin*

SIGNATURE *Anthony Martin*

SALES TAX (If Any) _____

TOTAL CHARGES *2,294.92*

DISCOUNT *2,903.22 (35%)* IF PAID IN 30 DAYS

5,391.69 Net.



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



Invoice

DATE	INVOICE #
4/7/2014	25418

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

- Acidizing
- Cement
- Tool Rental

IC 103
g.f.
R

TERMS	Well No.	Lease	County	Contractor	Well Type	Well Category	Job Purpose	Operator
Net 30	#2-2	Hobbs	Trego	Company Tools	Oil	Development	LongString	Nick

PRICE REF.	DESCRIPTION	QTY	UM	UNIT PRICE	AMOUNT
575D	Mileage - 1 Way	50	Miles	6.00	300.00
578D-L	Pump Charge - Long String	1	Job	1,500.00	1,500.00
221	Liquid KCL (Clayfix)	4	Gallon(s)	25.00	100.00T
280	Flocheck 21	500	Gallon(s)	3.00	1,500.00T
290	D-Air	2	Gallon(s)	42.00	84.00T
403-5	5 1/2" Cement Basket	1	Each	300.00	300.00T
404-5	5 1/2" Port Collar	1	Each	2,900.00	2,900.00T
406-5	5 1/2" Latch Down Plug & Baffle	1	Each	275.00	275.00T
407-5	5 1/2" Insert Float Shoe With Auto Fill	1	Each	375.00	375.00T
409-5	5 1/2" Turbolizer	10	Each	90.00	900.00T
413-5	5 1/2" Roto Wall Scratcher	20	Each	40.00	800.00T
419-5	5 1/2" Rotating Head Rental	1	Each	200.00	200.00T
325	Standard Cement	200	Sacks	14.50	2,900.00T
276	Flocele	50	Lb(s)	2.50	125.00T
283	Salt	1,000	Lb(s)	0.20	200.00T
284	Calseal	9	Sack(s)	35.00	315.00T
285	CFR-1	100	Lb(s)	4.50	450.00T
581D	Service Charge Cement	200	Sacks	2.00	400.00
583D	Drayage	522	Ton Miles	1.00	522.00
	Subtotal				14,146.00
	Sales Tax Trego County			7.65%	873.94

We Appreciate Your Business!	Total	\$15,019.94
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CHARGE TO: Merlin Drilling Co Inc
 ADDRESS
 CITY, STATE, ZIP CODE

TICKET 25418

PAGE 1 OF 2

SERVICE LOCATIONS
 1. Hays KS WELLS PROJECT NO: H-2-2 LEASE Hobbs COUNTY/PARISH Texe STATE KS CITY
 2. Wesley City KS CONTRACTOR Co Tools #24 RIG NAME NO. Delcettion SHIPPED VIA Truck DELIVERED TO
 3. WELLS TYPE oil WELLS CATEGORY Development JOB PURPOSE Logskilling WELLS PERMIT NO.
 4. REFERRAL LOCATION INVOICE INSTRUCTIONS

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING		DESCRIPTION	MILEAGE	QTY.	U/M	QTY.	U/M	UNIT PRICE	AMOUNT
		LOC	ACCT								
575				MILEAGE #111	50.00					6.00	300.00
578				Pump Charge (Logskilling)	1.00					1500.00	1500.00
221				KCL	4 gal					25.00	100.00
280				Flechock-21	5 gal					3.00	15.00
290				D-Air	2 gal					4.00	8.00
403				Basket	1 ea			5.5		300.00	300.00
404				Part Collar	1 ea					2900.00	2900.00
406				L.D. Plug & Backfill	1 ea					275.00	275.00
407				Insert Plug & Stone on Bill	1 ea					375.00	375.00
409				Turbolizers	12 ea					90.00	900.00
413				Rotawell Scratchers	20 ea					40.00	800.00
419				Rotating Head	1 ea					200.00	200.00

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 4-8-14 TIME SIGNED 6:50 AM A.M. P.M.

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

SURVEY

OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN? YES NO

WE UNDERSTOOD AND MET YOUR NEEDS? YES NO

OUR SERVICE WAS PERFORMED WITHOUT DELAY? YES NO

WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY? YES NO

ARE YOU SATISFIED WITH OUR SERVICE? YES NO

CUSTOMER DID NOT WISH TO RESPOND

PAGE TOTAL 1 9230.00
 PAGE TOTAL 2 4912.00
 Sub total 14142.00
 TAX 15.90
 TOTAL 15,019.94

SWIFT OPERATOR McK... APPROVAL ...
 CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES The customer hereby acknowledges receipt of the materials and services listed on this ticket
 Thank You!

JOB LOG

SWIFT Services, Inc.

DATE 4-7-14 PAGE NO. 1

CUSTOMER *Martin Drilling Co Inc* WELL NO. # *2-2* LEASE *Hobbs* JOB TYPE *Longstring* TICKET NO. *25418*

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	2330							pull well
								RTD 4029
								5" x 15.5" x 402.3' x 18'
								Jumbo 1, 5, 7, 9, 11, 13, 45
								Back 49
								P.C. 49 @ 1907'
	0000							PI
	0115							away Break Circ
	0230							Bottom Circ
	0350	5	0				200	Start 15 bbl KCL Flush
		5	15/0				200	Start 50 gal Flocheck 21
		5	12/0				200	Start 5 bbl KCL Flush
		5	5/0				200	Start 15 bbl EA-2 Cement
	0400		37					End Cement
								Wash P&L
								Drop to Di. Plug
	0415	6	0				200	Start Displacement
	0430	5	68				250	Catch Cement
	0445		95				800 / 1500	Land Plug
								Release Pressure
								F/act Hold
		2	7/4					Plug RHRMH 30 bbls EA-2

Thank you
 Nick, David E & Jared



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



Invoice

DATE	INVOICE #
4/16/2014	25424

BILL TO
Murfin Drilling Co Inc P. O. Box 130 Hill City, KS 67642-0130
<p>UDRI FOR</p> <p>APPROVED</p> <p><i>IC 103</i></p> <p><i>J.P.</i></p>

- Acidizing
- Cement
- Tool Rental

TERMS	Well No.	Lease	County	Contractor	Well Type	Well Category	Job Purpose	Operator
Net 30	#2-2	Hobbs	Trego	Company Tools	Oil	Development	Port Collar	Nick
PRICE REF.	DESCRIPTION				QTY	UM	UNIT PRICE	AMOUNT
575D	Mileage - 1 Way				45	Miles	6.00	270.00
576D-D	Pump Charge - Port Collar - 1967 Feet				1	Job	1,500.00	1,500.00
290	D-Air				2	Gallon(s)	42.00	84.00T
330	Swift Multi-Density Standard (MIDCON II)				200	Sacks	18.50	3,700.00T
276	Flocele				50	Lb(s)	2.50	125.00T
581D	Service Charge Cement				250	Sacks	2.00	500.00
583D	Drayage				550	Ton Miles	1.00	550.00
	Subtotal							6,729.00
	Sales Tax Trego County						7.65%	299.04
We Appreciate Your Business!							Total	\$7,028.04



CHARGE TO: Murkin Dr-ly Co, Inc.
 ADDRESS _____
 CITY, STATE, ZIP CODE _____

TICKET 25424

PAGE 1 OF 1

SERVICE LOCATIONS
 1. Hays, KS
 2. Wass City, KS
 3. _____
 4. _____

WELL/PROJECT NO. #2-2
 LEASE Hobbs
 COUNTY/PARISH _____
 STATE KS
 CITY _____

TICKET TYPE SERVICE SALES
 CONTRACTOR Ce Tools
 RIG NAME/NO. Trigg
 SHIPPED VIA 7

WELL TYPE oil
 WELL CATEGORY Development
 JOB PURPOSE Part Collar
 DELIVERED TO Location
 WELL PERMIT NO. _____

DATE 4-16-14
 ORDER NO. _____

WELL LOCATION _____

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.	UM	QTY.	UM	UNIT PRICE	AMOUNT
		LOG	ACCT	DF							
575					MILEAGE # 111	45	mi			6.00	270.00
576D					Pump Charge (Part Collar)	1	ea	1967	1	1500.00	1500.00
290					D. Air	2	gal			42.00	84.00
330					SMD Cement	200	skc			18.00	3700.00
270					Klucel	50	#	1/2	154	2.50	125.00
581					Cement Service Charge	250	skc			2.00	500.00
583					Drayage	550	T/M			1.00	550.00

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 4-16-14 TIME SIGNED 1:20
 A.M. P.M.

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

SURVEY

OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?

WE UNDERSTOOD AND MET YOUR NEEDS?

OUR SERVICE WAS PERFORMED WITHOUT DELAY?

WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?

ARE YOU SATISFIED WITH OUR SERVICE? YES NO

CUSTOMER DID NOT WISH TO RESPOND

PAGE TOTAL 6729.00
 TOTAL 7028.04
 15.00
 TAX 5.07
 7.05%

SWIFT OPERATOR _____ APPROVAL _____

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

Thank You!

JOB LOG

SWIFT Services, Inc.

DATE 4-16-4 PAGE NO. 7

CUSTOMER Martin Drilling Co Inc.

WELL NO. # 2-2

LEASE Hobbs

JOB TYPE Pout Collar

TICKET NO. 25424

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1245							on loc setup Trks
								2 3/8" x 5 1/2" P.C. 1967'
	1215						1200	Test csg to 1200 psi.
	1220	4	5				300	Open P.C. Take rate + check for blow
	1225	4.5	0				300	Start 200 sks SMD Cement
		4.5	100				500	Circ Cement/raise weight
		4.5	105/0				500	End Cement/Start Displacement
	1250		6.5				600	Cement Displaced
	1255						1000	Close P.C. Test Csg to 1000 psi
	1310	3	0				150	run 5jts Reverse out
	1315		18					Wipe Clean
								200 sks SMD circ 200 sks to pit
								Thank you
								Nick, David E. & Doug

Hobbs #2-2
 Daily Drilling Report
 Page Two
 4/7/14

Depth 4005'. Cut 155'. DT: None. CT: 16½ hrs. Dev.: None. **LKC 'I'**: ls: off-wh, beige, ool w/ calcite cement, scat vpr-pr interxtln por, few pcs w/ pr-fr vuggy por, VSS ppts FO on brk, pr spotty to cpl pcs full gd lt-med brwn st w/fr sat, no odor. **LKC 'J'**: ls: off-wh, tan, brwn, fn - medxtln, sli ool, sli foss, pr-fr vuggy & interool por, SSFO & few gas bubbles w/ oil ring on brk, gd oil sheen on wtr after brk, fr patchy - few pcs full med brwn st w/ sat, cpl pcs w/ spots hvy blk st, no odor. **LKC 'K'**: ls: tan, lt brwn, fn-medxtln, finely ool, most w/ calcite cement, pr - fr interool por, SSFO on brk, pr-fr med-dk brwn st, pr - fr streaky sat, no odor. **LKC 'L'**: ls: brwn, fn-medxtln, granular, scat isolated oolites, no vis por, NS. ls: tan, fn-medxtln, few pcs w/ cpl iso vugs w/ live oil st & spots brwn st, NSFO, no odor. **DST #2 3817-3925 (LKC H-L)**: 30-60-60-90. IF: BOB in 25mins. ISI: wk surf blw back built to ½" died back to surf blw. FF: BOB in 4mins. FSI: fr surf blw back built to 5". Rec.: 675'GIP, 45'GO (30%G, 70%O), 60'GOM (20%G, 50%O, 30%M), 115'GOM (25%G, 25%O, 50%M). HP: 1880-1843. FP: 25/73, 68/106. SIP: 1195-1185. BHT: 113°.

4/8/14 RTD: 4029'. Cut 24'. DT: 1hr pump. CT: 21¾ hrs. Dev.: 1½° @ 4029'. HC @ 9:15AM 4/7. Pioneer logged @ 12:15PM – 4:00PM 4/7. LTD 4027'. Ran 96jts of 15.5# of 5 ½" prod csg, set @ 4021'. Swift cmt w/150sxs of EA-2. PD @ 4:45AM 4/8. PC 1967'. 30sxs RH, 20sxs MH.

4/9/14 RTD: 4029'. CT: 1¾ hrs. RR @ 8:45AM 4/8/14 FINAL REPORT

Hobbs #2-2 2310' FNL 1648' FWL Sec. 2-T11S-R24W 2335' KB							Hobbs #1-2 1111' FNL 1648' FWL Sec. 2-T11S-R24W 2350' KB	
Formation	Sample tops	Datum	Ref	Log Tops	Datum	Ref	Log Tops	Datum
Anhydrite	1945	+390	Flat	1942	+388		1960	+390
B/Anhydrite	1986	+349	-1	1983	+347		2000	+350
Topeka	3441	-1106	-8	3439	-1109		3448	-1098
Heebner	3660	-1325	-7	3657	-1327		3668	-1318
Toronto	3680	-1345	-6	3678	-1348		3689	-1339
Lansing	3698	-1363	-7	3694	-1364		3706	-1356
BKC	3922	-1587	-7	3922	-1592		3930	-1580
RTD	4029						4050	-1700
LTD				4027			4048	-1698