



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1209927  
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: \_\_\_\_\_

1209927

Operator Name: \_\_\_\_\_ Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West County: \_\_\_\_\_

**INSTRUCTIONS:** Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <i>(Attach Additional Sheets)</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input type="checkbox"/> No			
Electric Log Run	<input type="checkbox"/> Yes <input type="checkbox"/> No			
List All E. Logs Run:				

CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

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

Did you perform a hydraulic fracturing treatment on this well?  Yes  No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?  Yes  No *(If No, skip question 3)*

Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry?  Yes  No *(If No, fill out Page Three of the ACO-1)*

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD:      Size: \_\_\_\_\_ Set At: \_\_\_\_\_ Packer At: \_\_\_\_\_ Liner Run:  Yes  No

Date of First, Resumed Production, SWD or ENHR: \_\_\_\_\_ Producing Method:  
 Flowing  Pumping  Gas Lift  Other *(Explain)* \_\_\_\_\_

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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Form	ACO1 - Well Completion
Operator	Murfin Drilling Co., Inc.
Well Name	Rex 1-28
Doc ID	1209927

All Electric Logs Run

Dual Induction
Dual Compensated
Microresistivity
Borehole Compensated





# INVOICE

*acct.  
Prod-me*

PO Box 93999  
Southlake, TX 76092

Invoice Number: 1424 94

Invoice Date: Apr 8, 2014

Page: 1

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

<b>Bill To:</b>
Murfin Drig. Co., Inc. 250 N. Water STE #300 Wichita, KS 67202

Customer ID	Field Ticket #	Payment Terms	
Murfin	61340	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS2-01	Oakley	Apr 8, 2014	5/8/14

Quantity	Item	Description	Unit Price	Amount
1.00	WELL NAME	Rex #1-28		
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
493.50	CEMENT SERVICE	Ton Mileage Charge	2.60	1,283.10
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	EQUIPMENT OPERATOR	Paul Beaver		
1.00	EQUIPMENT OPERATOR	Tyler Flipse		

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

\$ 2,916.65 *sk*

ONLY IF PAID ON OR BEFORE  
May 3, 2014

Subtotal	8,333.30
Sales Tax	325.61
Total Invoice Amount	8,658.91
Payment/Credit Applied	
<b>TOTAL</b>	<b>8,658.91</b>

*SR*

*- 2916.65*

*574226*





*acct  
Prod-mg*

# INVOICE

PO Box 93999  
Southlake, TX 76092

Invoice Number: 142679

Invoice Date: Apr 17, 2014

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

Page: 1

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

Customer ID	Field Ticket #	Payment Terms	
Murfin	62094	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-03	Oakley	Apr 17, 2014	5/17/14

Quantity	Item	Description	Unit Price	Amount
1.00	WELL NAME	Rex #1-28		
132.00	CEMENT MATERIALS	Class A Common	17.90	2,362.80
88.00	CEMENT MATERIALS	Pozmix	9.35	822.80
8.00	CEMENT MATERIALS	Gel	23.40	187.20
55.00	CEMENT MATERIALS	Flo Seal	2.97	163.35
236.29	CEMENT SERVICE	Cubic Feet Charge	2.48	586.00
493.50	CEMENT SERVICE	Ton Mileage Charge	2.60	1,283.10
1.00	CEMENT SERVICE	Plug to Abandon	2,483.59	2,483.59
50.00	CEMENT SERVICE	Pump Truck Mileage	7.70	385.00
50.00	CEMENT SERVICE	Light Vehicle Mileage	4.40	220.00
1.00	EQUIPMENT SALES	8-5/8 Wooden Plug	110.00	110.00
1.00	CEMENT SUPERVISOR	LaRene Wentz		
1.00	CEMENT SUPERVISOR	Kelly Gabel		

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

\$ 2,972.84 ✓

ONLY IF PAID ON OR BEFORE  
**May 12, 2014**

Subtotal	8,603.84
Sales Tax	288.05
Total Invoice Amount	8,891.89
Payment/Credit Applied	
<b>TOTAL</b>	<b>8,891.89</b>

*OK JR*

$8,891.89 - 2,972.84 = 5,919.05$

# ALLIED OIL & GAS SERVICES, LLC 062094

Federal Tax I.D. # 20-8651475

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

SERVICE POINT: Oakley, TX

DATE <u>4-17-14</u>	SEC. <u>28</u>	TWP. <u>4</u>	RANGE <u>31</u>	CALLED OUT	ON LOCATION <u>12:30 pm</u>	JOB START <u>4:30 pm</u>	JOB FINISH <u>5:30 am</u>
LEASE <u>Rex</u>	WELL # <u>1-28</u>	LOCATION <u>Rexford N to Y 1E, N to 10S</u>			COUNTY <u>Randall</u>	STATE <u>TX</u>	
OLD OR <input checked="" type="checkbox"/> NEW (Circle one)				<u>4W, 1/2 S, 2 1/2 W</u>			

CONTRACTOR <u>Martin 7</u>	OWNER <u>Same.</u>
TYPE OF JOB <u>PTA</u>	
HOLE SIZE <u>9 5/8</u> T.D. <u>4560'</u>	CEMENT AMOUNT ORDERED <u>220 sks 60/90 48 gal 1/4" # flo-seal</u>
CASING SIZE _____ DEPTH _____	
TUBING SIZE _____ DEPTH <u>2740'</u>	
DRILL PIPE <u>4 1/2</u> DEPTH <u>2740'</u>	
TOOL _____ DEPTH _____	
PRES. MAX _____ MINIMUM _____	
MEAS. LINE _____ SHOE JOINT _____	
CEMENT LEFT IN CSG. _____	
PERFS. _____	
DISPLACEMENT <u>33.52 bbl</u>	COMMON <u>132 sks @ 17.90 2362.80</u>
	POZMIX <u>88 sks @ 9.35 822.80</u>
	GEL <u>8 sks @ 23.40 187.20</u>
	CHLORIDE _____ @ _____
	ASC _____ @ _____
	<u>flo-seal 55# @ 2.87 163.35</u>

**EQUIPMENT**

<u>421</u>	PUMP TRUCK	CEMENTER <u>LaRene Ercenduff</u>
<u>422/281</u>	HELPER	<u>Andrew Fordham</u>
<u>818/287</u>	DRIVER	<u>Kelly Gabel</u>
	DRIVER	<u>Suan Tamez (TUS)</u>

HANDLING <u>736.2987</u>	@ <u>2.48</u>	<u>586.00</u>
MILEAGE <u>7.87 hr x 50</u>	@ <u>2.60</u>	<u>1283.10</u>
<u>(1,891.84/358)</u>		TOTAL <u>5409.25</u>

**REMARKS:**

mix 2.5 sks 2740'  
mix 100 sks 1750'  
mix 40 sks 270'  
mix 10 sks 40' w/ plug  
mix 65 sks M.H.  
mix 30 sks R.H.

Thank you

CHARGE TO: Martin  
 STREET \_\_\_\_\_  
 CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

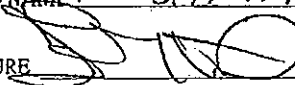
**SERVICE**

DEPTH OF JOB <u>2740'</u>	
PUMP TRUCK CHARGE _____	<u>2483.59</u>
EXTRA FOOTAGE _____ @ _____	
MILEAGE <u>M.H. 50</u>	@ <u>7.70 385.00</u>
MANIFOLD _____ @ _____	
<u>M.H. 50</u>	@ <u>4.40 220.00</u>
<u>(1081.00/358)</u>	
	TOTAL <u>3888.59</u>

**PLUG & FLOAT EQUIPMENT**

<u>woodruff aug</u>	@ _____	<u>110.00</u>
_____	@ _____	_____
_____	@ _____	_____
_____	@ _____	_____
_____	@ _____	_____
<u>0%</u>		TOTAL <u>110.00</u>

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 FRED T. Williams  
 SIGNATURE 

SALES TAX (If Any) \_\_\_\_\_  
 TOTAL CHARGES 8,603.84  
 DISCOUNT 2,972.84 (35%)  
 TOTAL PAID IN 30 DAYS 5,630.99 Net



Rex #1-28  
Daily Drilling Report  
Page Two

4/15/14 Depth 4170'. Cut 100'. DT: None. CT: 16 hours. Dev.: None. **LKC H:** Ist, vry fn-fn xln, foss & ool, fr-gd interpart-vug por, VSSFO, wk odor. **LKC J:** Ist, micro-vry fn xln, micritic, tr chalk, foss-vry foss, NFO, no odor, no stn. **LKC K:** Ist, micro-vry fn xln, micritic, occ foss & ool, fr-pr interpart por, tr vug por, NFO, no odor, lt brn stn. **DST #3 4057'-4170' (LKC G-K):** 30-60-60-90. IF ¾" blw built to 5 ¼". FF: surf blw built to 9". Rec: 1' FO, 78' OCM (70% M, 30%O), 60' OCM (80%M, 20%O). HP: 1924-1919. FP: 21/52, 58/83. SIP: 1285-1263. BHT: 116°.

4/16/14 Depth 4470'. Cut 300'. DT: None. CT: 6hrs. Dev.: None.

4/17/14 RTD 4560'. Cut 90'. DT: None. CT: 20½ hrs. Dev.: 0° @ 4560'. HC @ 10:30AM 4/16. Pioneer logged 4:00PM – 9:00PM 4/16. LTD: 4558'. Allied plugged hole 2:00AM-5:30AM 4/17, using 60/40Poz, 4%Gel, ¼#Flo seal as follows: 25sxs @ 2740', 100sxs @ 1950', 40sxs @ 290', 10sxs @ 40', 30sxs RH, 15sxs MH. Orders: Richard Williams KCC 4/11.

4/18/14 RTD: 4560'. CT: 2½ hrs. RR @ 9:30AM 4/17/14. FINAL REPORT

		Rex #1-28 1560' FNL 500' FEL Sec. 28-4S-31W 2955' KB					Gly #1-27 1320' FNL 2310' FWL Sec. 27-4S-31W 2937' KB		
Formation	Sample top	Datum	Ref	Log tops	Datum	Ref	Log tops	Datum	
Anhydrite	2709	+246	-2	2710	+245	-3	2689	+248	
B/Anhydrite	2746	+209	-6	2743	+212	-3	2722	+215	
Topeka	3760	-805	+9	3779	-824	-7	3754	-817	
Heebner	3938	-983	Flat	3944	-989	-6	3920	-983	
Lansing	3973	-1018	+13	3992	-1037	-6	3968	-1031	
Stark	4136	1181	+17	4160	-1205	-7	4135	-1198	
BKC	4188	-1233	+9	4204	-1249	-7	4179	-1242	
Pawnee	4286	-1331	+23	4318	-1363	-9	4291	-1354	
Cherokee	4369	-1414	+26	4402	-1447	-7	4377	-1440	
Mississippi	4472	-1517	+38	4514	-1559	-4	4492	-1555	
RTD	4560						4560	-1623	
LTD				4558			4560	-1623	



## DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company**

250 N Water Ste 300  
Wichita, Ks 67202

ATTN: Bob Stolzle

**Rex 1-28**

**28-4s-31w Rawlins, Ks**

Start Date: 2014.04.13 @ 02:45:15

End Date: 2014.04.13 @ 11:20:15

Job Ticket #: 55737                      DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2014.04.19 @ 11:07:47



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Murfin Drilling Company

**28-4s-31w Rawlins, Ks**

250 N Water Ste 300  
Wichita, Ks 67202

**Rex 1-28**

ATTN: Bob Stolzle

Job Ticket: 55737

**DST#: 1**

Test Start: 2014.04.13 @ 02:45:15

## GENERAL INFORMATION:

Formation: **LKC A-B**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:16:15

Time Test Ended: 11:20:15

Test Type: Conventional Bottom Hole (Initial)

Tester: Brandon Turley

Unit No: 60

**Interval: 3918.00 ft (KB) To 4010.00 ft (KB) (TVD)**

Reference Elevations: 2955.00 ft (KB)

Total Depth: 4010.00 ft (KB) (TVD)

2950.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

**Serial #: 8373**

**Inside**

Press@RunDepth: 515.71 psig @ 3919.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.04.13

End Date:

2014.04.13

Last Calib.: 2014.04.13

Start Time: 02:45:20

End Time:

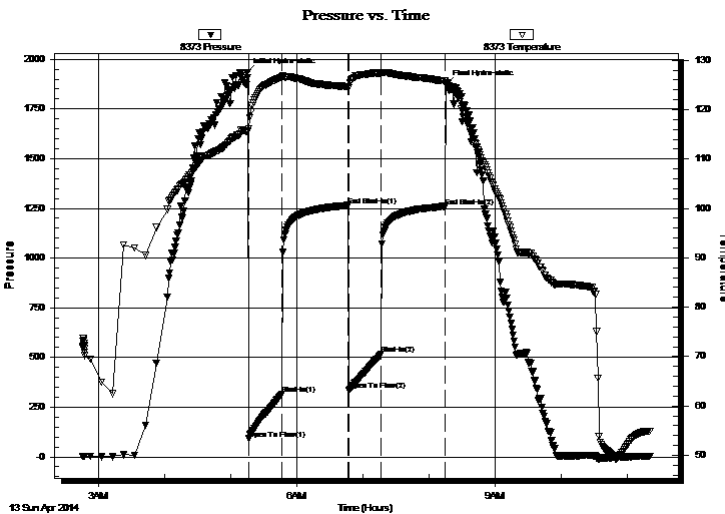
11:20:15

Time On Btm: 2014.04.13 @ 05:14:45

Time Off Btm: 2014.04.13 @ 08:15:15

TEST COMMENT: IF: BOB in 4 min.  
IS: No return.  
FF: BOB in 6 min.  
FS: No return.

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1933.33	115.61	Initial Hydro-static
2	91.00	116.17	Open To Flow (1)
32	315.92	126.58	Shut-In(1)
92	1265.40	124.62	End Shut-In(1)
93	334.42	124.50	Open To Flow (2)
122	515.71	127.32	Shut-In(2)
180	1260.12	125.81	End Shut-In(2)
181	1870.33	125.16	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
620.00	water 100%w	8.13
248.00	mcw 90%w 10%m	3.48
248.00	mw 50%w 50%m	3.48

## Gas Rates

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





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Murfin Drilling Company

**28-4s-31w Rawlins, Ks**

250 N Water Ste 300  
Wichita, Ks 67202

**Rex 1-28**

Job Ticket: 55737

**DST#: 1**

ATTN: Bob Stolzle

Test Start: 2014.04.13 @ 02:45:15

## Tool Information

Drill Pipe:	Length: 3859.00 ft	Diameter: 3.80 inches	Volume: 54.13 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 62.00 ft	Diameter: 2.25 inches	Volume: 0.30 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 54.43 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial 56000.00 lb
Depth to Top Packer:	3918.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	92.00 ft			
Tool Length:	120.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

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

Stubb	1.00			3891.00	
Shut In Tool	5.00			3896.00	
Hydraulic tool	5.00			3901.00	
Jars	5.00			3906.00	
Safety Joint	3.00			3909.00	
Packer	5.00			3914.00	28.00 Bottom Of Top Packer
Packer	4.00			3918.00	
Stubb	1.00			3919.00	
Recorder	0.00	8373	Inside	3919.00	
Recorder	0.00	8356	Outside	3919.00	
Perforations	20.00			3939.00	
Change Over Sub	1.00			3940.00	
Drill Pipe	64.00			4004.00	
Change Over Sub	1.00			4005.00	
Bullnose	5.00			4010.00	92.00 Bottom Packers & Anchor

**Total Tool Length: 120.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Murfin Drilling Company

**28-4s-31w Rawlins, Ks**

250 N Water Ste 300  
Wichita, Ks 67202

**Rex 1-28**

Job Ticket: 55737

**DST#: 1**

ATTN: Bob Stolzle

Test Start: 2014.04.13 @ 02:45:15

### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

125000 ppm

Viscosity: 47.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.98 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 800.00 ppm

Filter Cake: 2.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
620.00	water 100%w	8.132
248.00	mcw 90%w 10%m	3.479
248.00	mw 50%w 50%m	3.479

Total Length: 1116.00 ft      Total Volume: 15.090 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

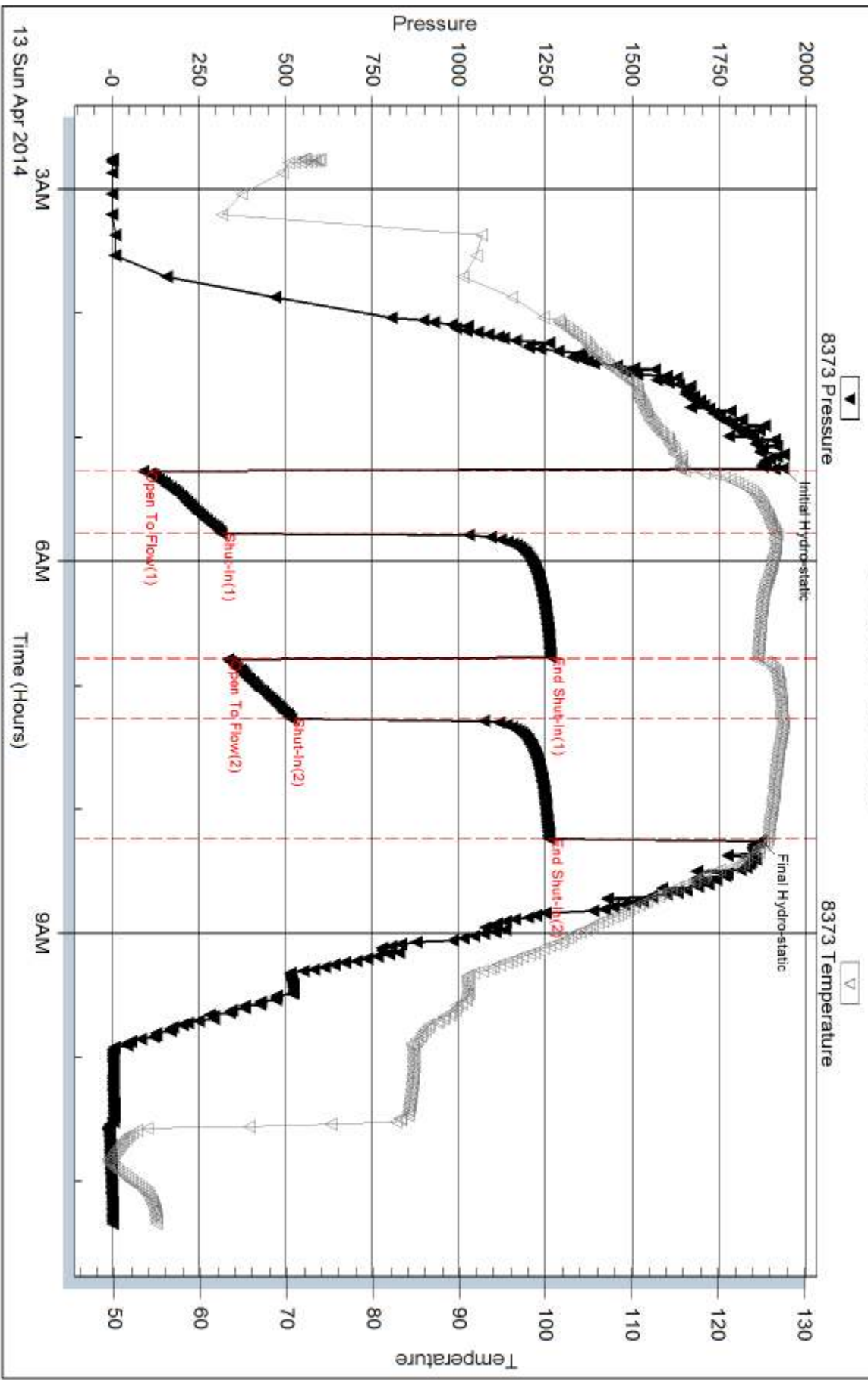
Serial #:

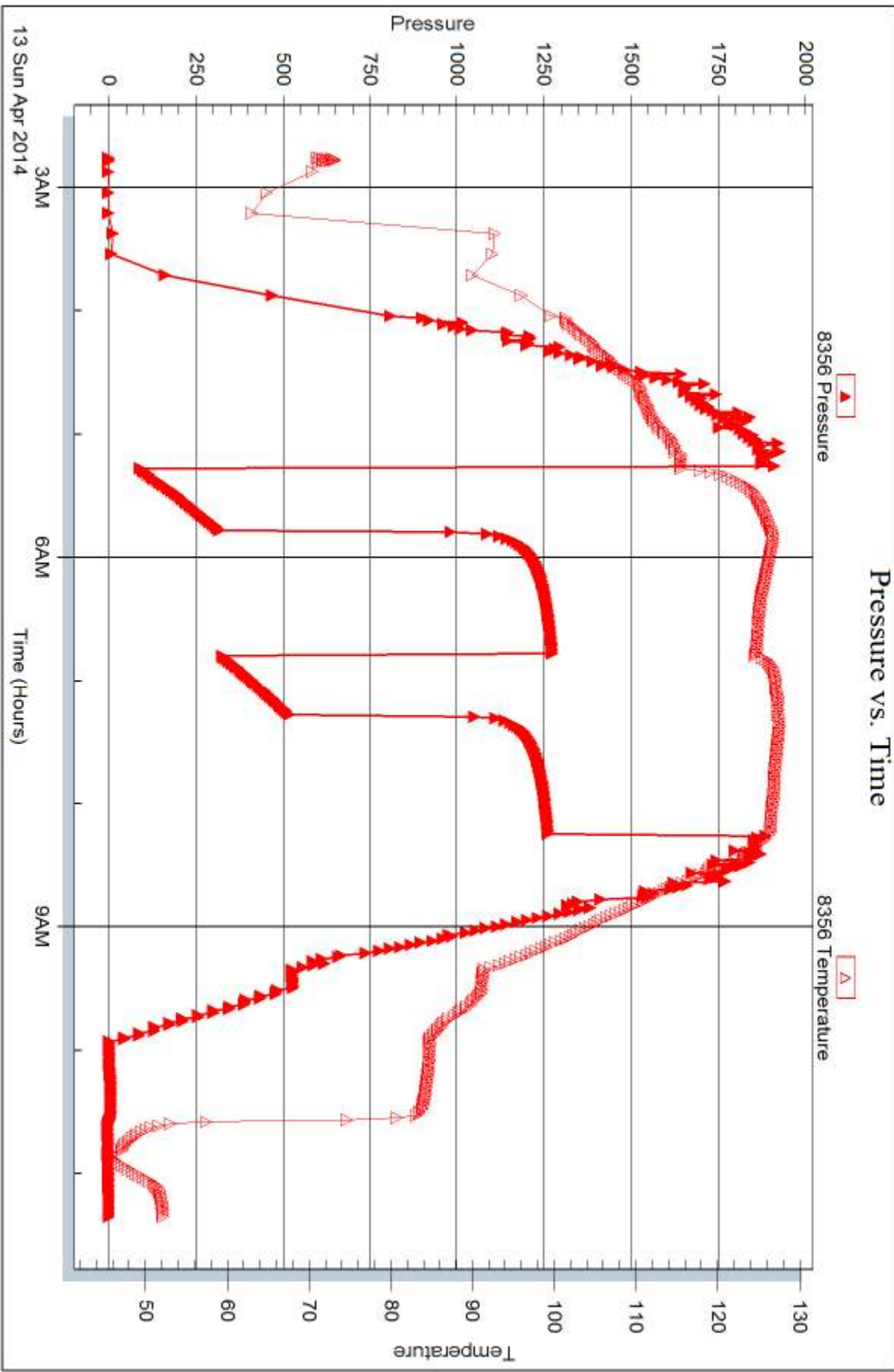
Laboratory Name:

Laboratory Location:

Recovery Comments: .12@44=125000

### Pressure vs. Time









## DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company**

250 N Water Ste 300  
Wichita, Ks 67202

ATTN: Bob Stolzle

**Rex 1-28**

**28-4s-31w Rawlins, Ks**

Start Date: 2014.04.13 @ 21:26:00

End Date: 2014.04.14 @ 06:46:00

Job Ticket #: 56975                      DST #: 2

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

Printed: 2014.04.19 @ 11:07:21



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Murfin Drilling Company

**28-4s-31w Rawlins, Ks**

250 N Water Ste 300  
Wichita, Ks 67202

**Rex 1-28**

Job Ticket: 56975

**DST#: 2**

ATTN: Bob Stolzle

Test Start: 2014.04.13 @ 21:26:00

## GENERAL INFORMATION:

Formation: **LKC "F-G"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:56:30

Time Test Ended: 06:46:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Kevin Mack

Unit No: 66

**Interval: 4022.00 ft (KB) To 4060.00 ft (KB) (TVD)**

Reference Elevations: 2955.00 ft (KB)

Total Depth: 4060.00 ft (KB) (TVD)

2950.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

**Serial #: 8874 Inside**

Press@RunDepth: 108.63 psig @ 4023.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.04.13

End Date:

2014.04.14

Last Calib.: 2014.04.14

Start Time: 21:27:00

End Time:

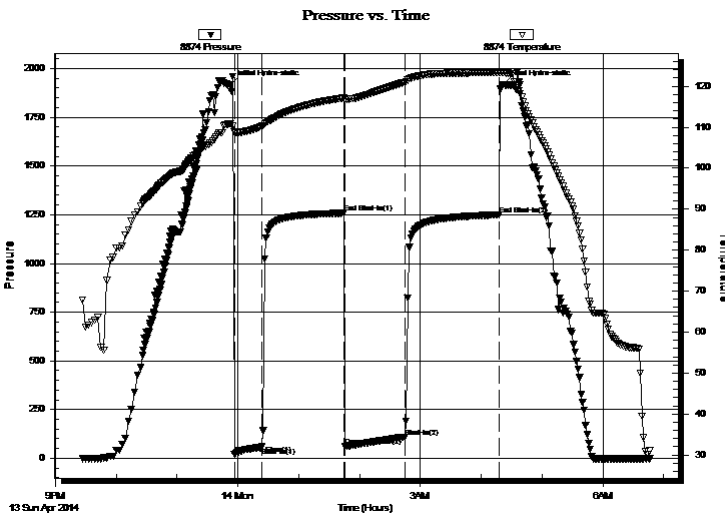
06:46:00

Time On Btm: 2014.04.13 @ 23:53:00

Time Off Btm: 2014.04.14 @ 04:22:00

**TEST COMMENT:** 30 - IF- 1/4" Blow built to 6"  
60 - IS- No Return  
60 - FF- Blow started at 2 min. Built to BoB in 50 min.  
90 - FS- No Return

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1917.63	110.83	Initial Hydro-static
4	19.42	108.79	Open To Flow (1)
31	57.59	110.25	Shut-In(1)
112	1258.55	117.16	End Shut-In(1)
113	60.61	116.85	Open To Flow (2)
172	108.63	120.95	Shut-In(2)
265	1249.53	123.26	End Shut-In(2)
269	1917.48	123.28	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
124.00	MW 10M 90W	1.18
72.00	WM 50M 50W	1.01

## 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: Bob Stolzle

**28-4s-31w Rawlins, Ks**

**Rex 1-28**

Job Ticket: 56975

**DST#: 2**

Test Start: 2014.04.13 @ 21:26:00

## GENERAL INFORMATION:

Formation: **LKC "F-G"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:56:30

Time Test Ended: 06:46:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Kevin Mack

Unit No: 66

**Interval: 4022.00 ft (KB) To 4060.00 ft (KB) (TVD)**

Total Depth: 4060.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2955.00 ft (KB)

2950.00 ft (CF)

KB to GR/CF: 5.00 ft

**Serial #: 8653 Outside**

Press@RunDepth: psig @ 4023.00 ft (KB)

Start Date: 2014.04.13

End Date:

2014.04.14

Capacity: 8000.00 psig

Last Calib.:

2014.04.14

Start Time: 21:27:00

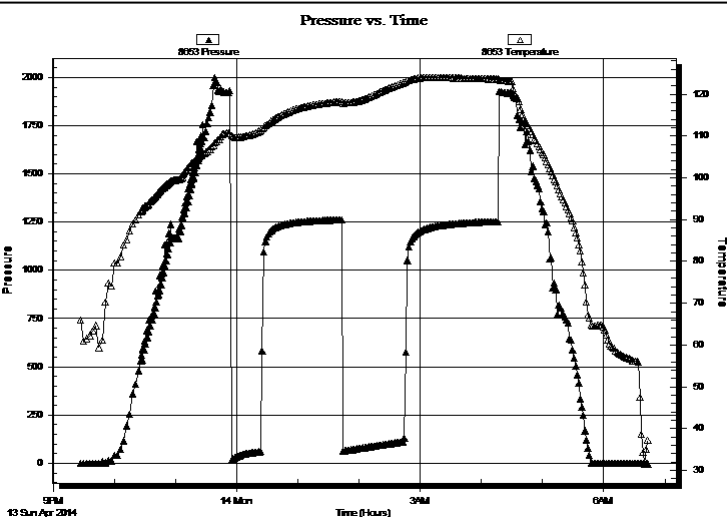
End Time:

06:44:00

Time On Btm:

Time Off Btm:

TEST COMMENT: 30 - IF- 1/4" Blow built to 6"  
60 - IS- No Return  
60 - FF- Blow started at 2 min. Built to BoB in 50 min.  
90 - FS- No Return



## PRESSURE SUMMARY

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

## Recovery

Length (ft)	Description	Volume (bbl)
124.00	MW 10M 90W	1.18
72.00	WM 50M 50W	1.01

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Murfin Drilling Company

**28-4s-31w Rawlins, Ks**

250 N Water Ste 300  
Wichita, Ks 67202

**Rex 1-28**

Job Ticket: 56975

**DST#: 2**

ATTN: Bob Stolzle

Test Start: 2014.04.13 @ 21:26:00

## Tool Information

Drill Pipe:	Length: 3960.00 ft	Diameter: 3.80 inches	Volume: 55.55 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: 61.00 ft	Diameter: 2.25 inches	Volume: 0.30 bbl	Weight to Pull Loose:	62000.00 lb
			<u>Total Volume: 55.85 bbl</u>	Tool Chased	ft
Drill Pipe Above KB:	27.00 ft			String Weight: Initial	52000.00 lb
Depth to Top Packer:	4022.00 ft			Final	58000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	38.00 ft				
Tool Length:	66.00 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			3995.00	
Shut In Tool	5.00			4000.00	
Hydraulic tool	5.00			4005.00	
Jars	5.00			4010.00	
Safety Joint	3.00			4013.00	
Packer	5.00			4018.00	28.00 Bottom Of Top Packer
Packer	4.00			4022.00	
Stubb	1.00			4023.00	
Recorder	0.00	8653	Outside	4023.00	
Recorder	0.00	8874	Inside	4023.00	
Perforations	1.00			4024.00	
Change Over Sub	1.00			4025.00	
Drill Pipe	31.00			4056.00	
Change Over Sub	1.00			4057.00	
Bullnose	3.00			4060.00	38.00 Bottom Packers & Anchor

**Total Tool Length: 66.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Murfin Drilling Company

**28-4s-31w Rawlins, Ks**

250 N Water Ste 300  
Wichita, Ks 67202

**Rex 1-28**

Job Ticket: 56975

**DST#: 2**

ATTN: Bob Stolzle

Test Start: 2014.04.13 @ 21:26:00

### 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:

85000 ppm

Viscosity: 58.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.79 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 800.00 ppm

Filter Cake: 2.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
124.00	MW 10M 90W	1.184
72.00	WM 50M 50W	1.010

Total Length: 196.00 ft      Total Volume: 2.194 bbl

Num Fluid Samples: 0

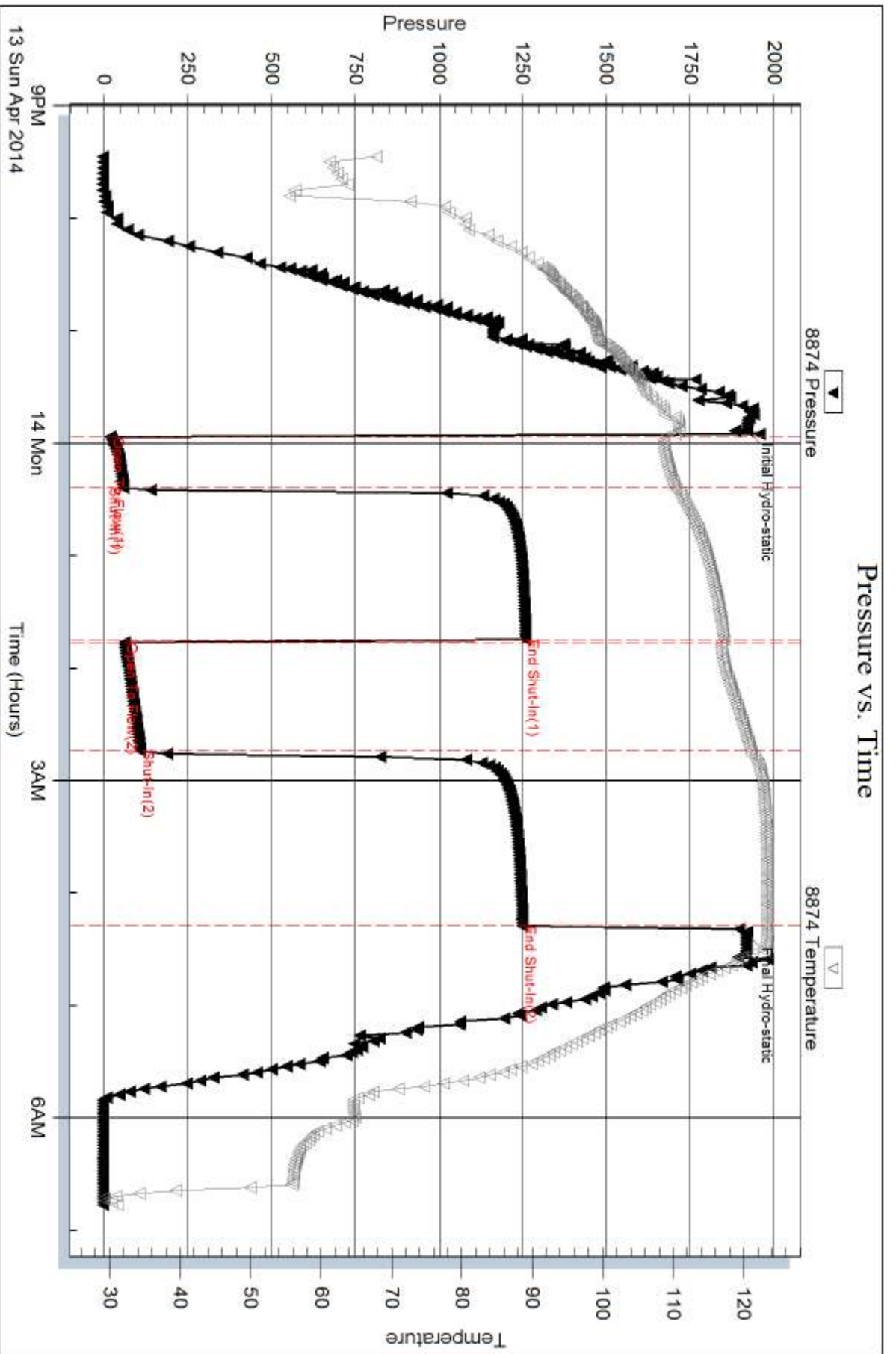
Num Gas Bombs: 0

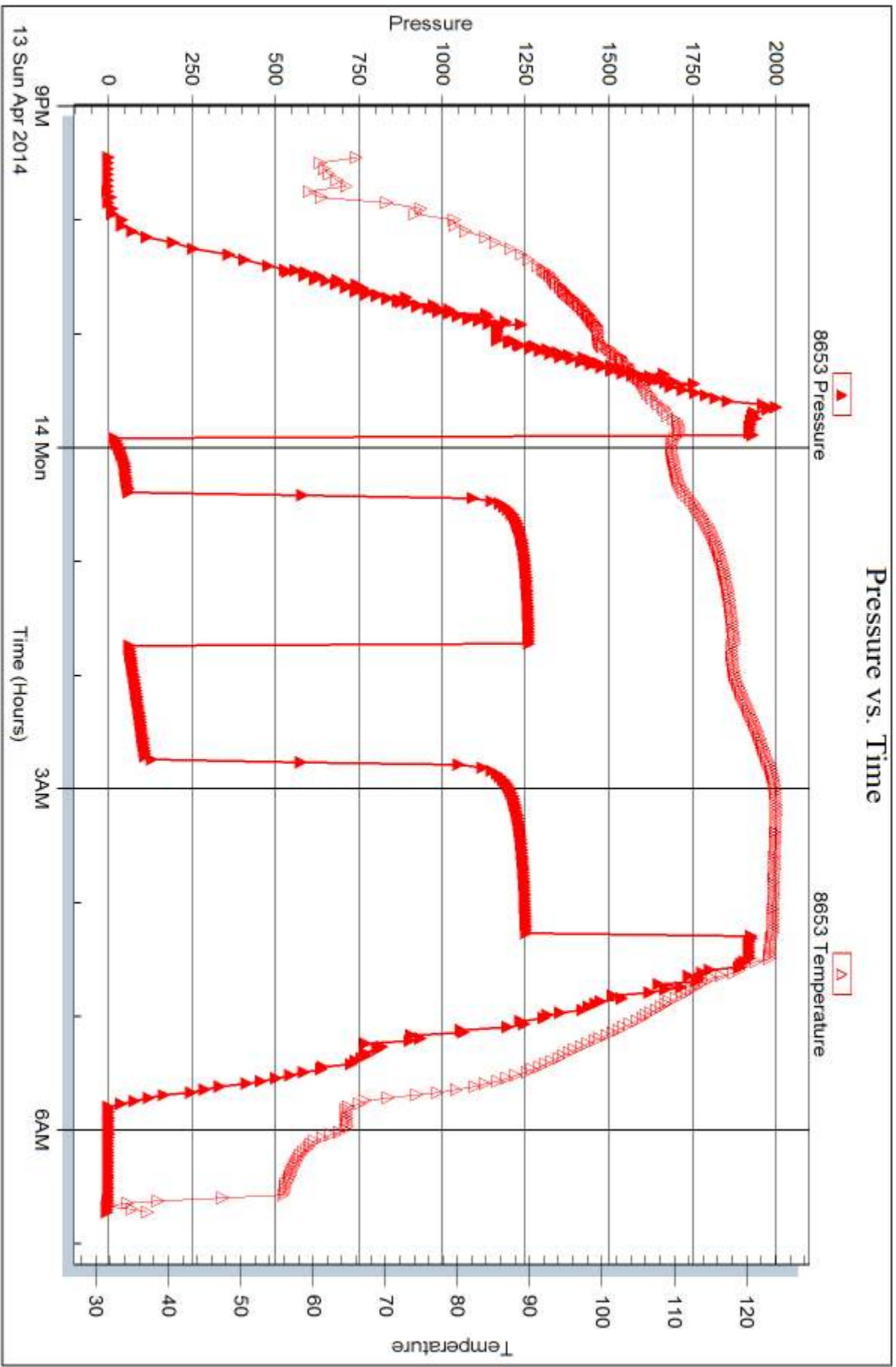
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW .15@41 deg = 85,000ppm







## DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company**

250 N Water Ste 300  
Wichita, Ks 67202

ATTN: Bob Stolzle

### **Rex 1-28**

#### **28-4s-31w Rawlins, Ks**

Start Date: 2014.04.14 @ 21:30:00

End Date: 2014.04.15 @ 07:52:00

Job Ticket #: 56826                      DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2014.04.19 @ 11:05:31





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Murfin Drilling Company

**28-4s-31w Rawlins, Ks**

250 N Water Ste 300  
Wichita, Ks 67202

**Rex 1-28**

Job Ticket: 56826

**DST#: 3**

ATTN: Bob Stolzle

Test Start: 2014.04.14 @ 21:30:00

## GENERAL INFORMATION:

Formation: **LKC "G-K"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:50:30

Time Test Ended: 07:52:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Kevin Mack

Unit No: 66

**Interval: 4057.00 ft (KB) To 4170.00 ft (KB) (TVD)**

Reference Elevations: 2955.00 ft (KB)

Total Depth: 4170.00 ft (KB) (TVD)

2950.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

**Serial #: 8874 Inside**

Press@RunDepth: 83.28 psig @ 4058.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.04.14

End Date:

2014.04.15

Last Calib.: 2014.04.15

Start Time: 21:31:00

End Time:

07:52:00

Time On Btm: 2014.04.15 @ 00:49:00

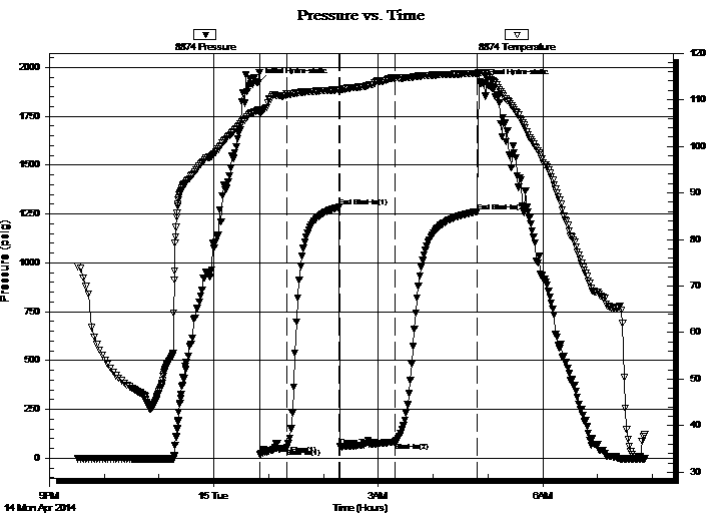
Time Off Btm: 2014.04.15 @ 04:52:00

TEST COMMENT: 30 - IF- 3/4" Blow built to 5 1/4"

60 - IS- No Return

60 - FF- Surface Blow built to 9"

90 - FS- No Return



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1923.92	107.79	Initial Hydro-static
2	21.09	107.17	Open To Flow (1)
31	51.98	111.17	Shut-In(1)
88	1284.55	112.14	End Shut-In(1)
90	58.33	112.01	Open To Flow (2)
150	83.28	114.73	Shut-In(2)
240	1262.70	115.68	End Shut-In(2)
243	1919.34	115.81	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
60.00	OCM 80M 20o	0.30
78.00	OCM 70M 30o	1.09
1.00	Free Oil 100o	0.01

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Murfin Drilling Company

**28-4s-31w Rawlins, Ks**

250 N Water Ste 300  
Wichita, Ks 67202

**Rex 1-28**

ATTN: Bob Stolzle

Job Ticket: 56826

**DST#: 3**

Test Start: 2014.04.14 @ 21:30:00

## GENERAL INFORMATION:

Formation: **LKC "G-K"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:50:30

Time Test Ended: 07:52:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Kevin Mack

Unit No: 66

**Interval: 4057.00 ft (KB) To 4170.00 ft (KB) (TVD)**

Reference Elevations: 2955.00 ft (KB)

Total Depth: 4170.00 ft (KB) (TVD)

2950.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

**Serial #: 8653 Outside**

Press@RunDepth: psig @ 4058.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.04.14

End Date:

2014.04.15

Last Calib.:

2014.04.15

Start Time: 21:31:00

End Time:

07:50:00

Time On Btm:

Time Off Btm:

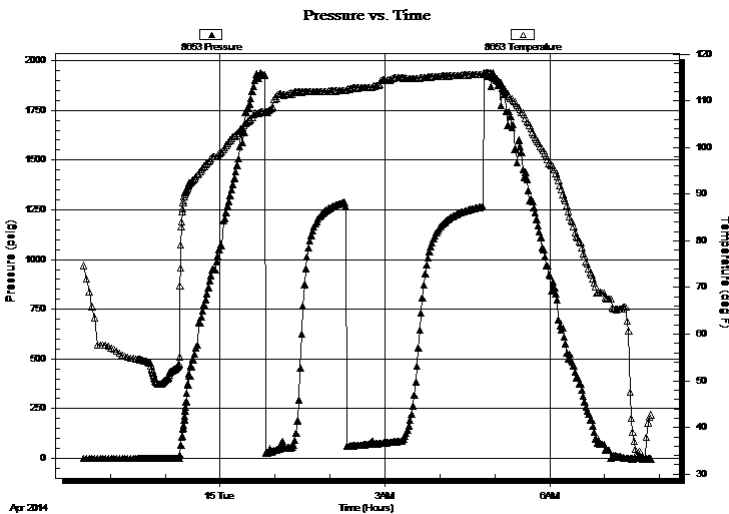
TEST COMMENT: 30 - IF- 3/4" Blow built to 5 1/4"

60 - IS- No Return

60 - FF- Surface Blow built to 9"

90 - FS- No Return

## PRESSURE SUMMARY



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

## Recovery

Length (ft)	Description	Volume (bbl)
60.00	OCM 80M 20o	0.30
78.00	OCM 70M 30o	1.09
1.00	Free Oil 100o	0.01

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Murfin Drilling Company

**28-4s-31w Rawlins, Ks**

250 N Water Ste 300  
Wichita, Ks 67202

**Rex 1-28**

Job Ticket: 56826

**DST#: 3**

ATTN: Bob Stolzle

Test Start: 2014.04.14 @ 21:30:00

## Tool Information

Drill Pipe:	Length: 3993.00 ft	Diameter: 3.80 inches	Volume: 56.01 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: 61.00 ft	Diameter: 2.25 inches	Volume: 0.30 bbl	Weight to Pull Loose: 64000.00 lb
			<u>Total Volume: 56.31 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 56000.00 lb
Depth to Top Packer:	4057.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	113.00 ft			
Tool Length:	141.00 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			4030.00	
Shut In Tool	5.00			4035.00	
Hydraulic tool	5.00			4040.00	
Jars	5.00			4045.00	
Safety Joint	3.00			4048.00	
Packer	5.00			4053.00	28.00 Bottom Of Top Packer
Packer	4.00			4057.00	
Stubb	1.00			4058.00	
Recorder	0.00	8653	Outside	4058.00	
Recorder	0.00	8874	Inside	4058.00	
Perforations	11.00			4069.00	
Change Over Sub	1.00			4070.00	
Drill Pipe	94.00			4164.00	
Change Over Sub	1.00			4165.00	
Bullnose	5.00			4170.00	113.00 Bottom Packers & Anchor

**Total Tool Length: 141.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Murfin Drilling Company

**28-4s-31w Rawlins, Ks**

250 N Water Ste 300  
Wichita, Ks 67202

**Rex 1-28**

Job Ticket: 56826

**DST#: 3**

ATTN: Bob Stolzle

Test Start: 2014.04.14 @ 21:30:00

### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 47.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.79 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1400.00 ppm

Filter Cake: 2.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	OCM 80M 20o	0.295
78.00	OCM 70M 30o	1.085
1.00	Free Oil 100o	0.014

Total Length: 139.00 ft

Total Volume: 1.394 bbl

Num Fluid Samples: 0

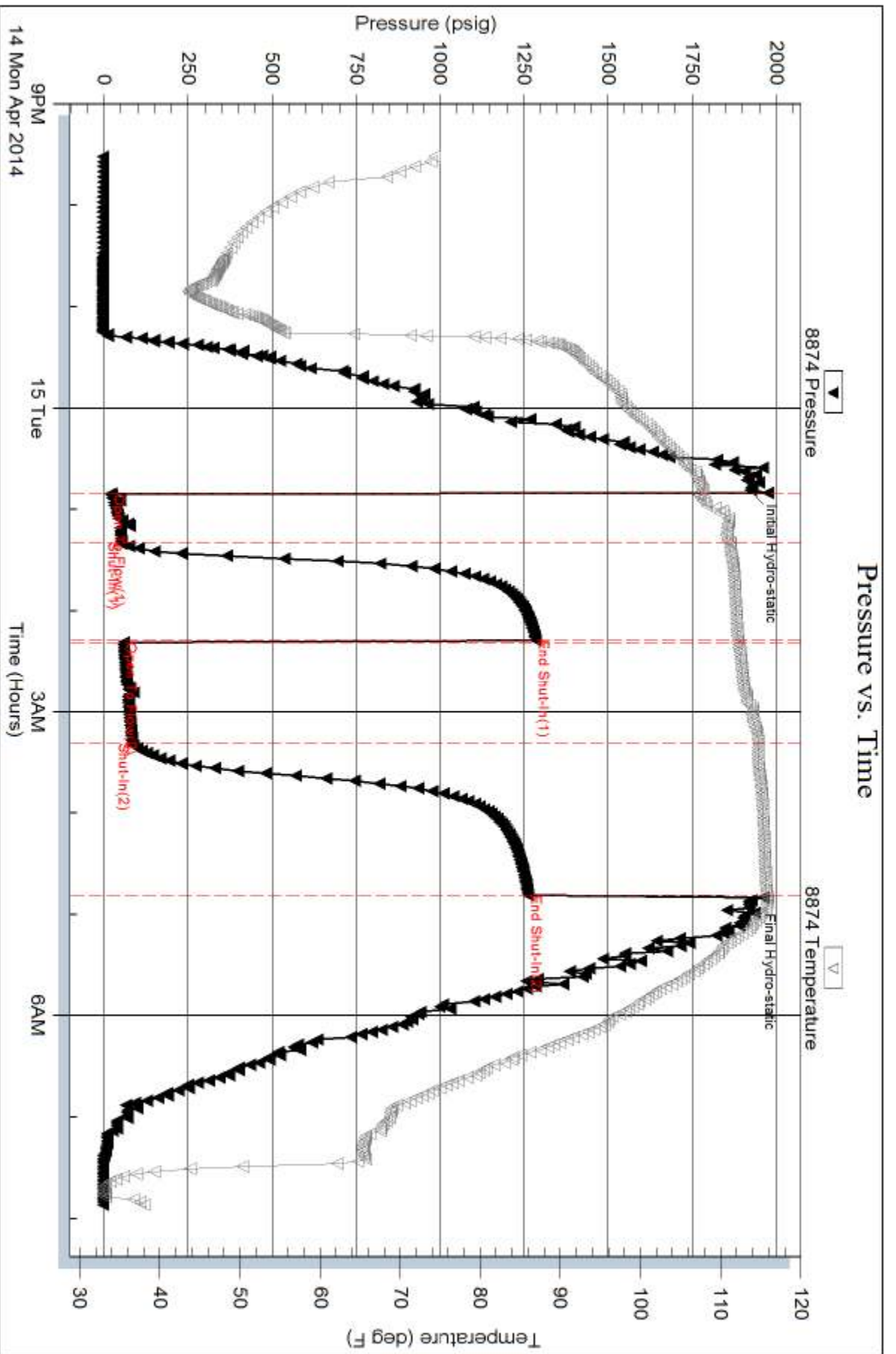
Num Gas Bombs: 0

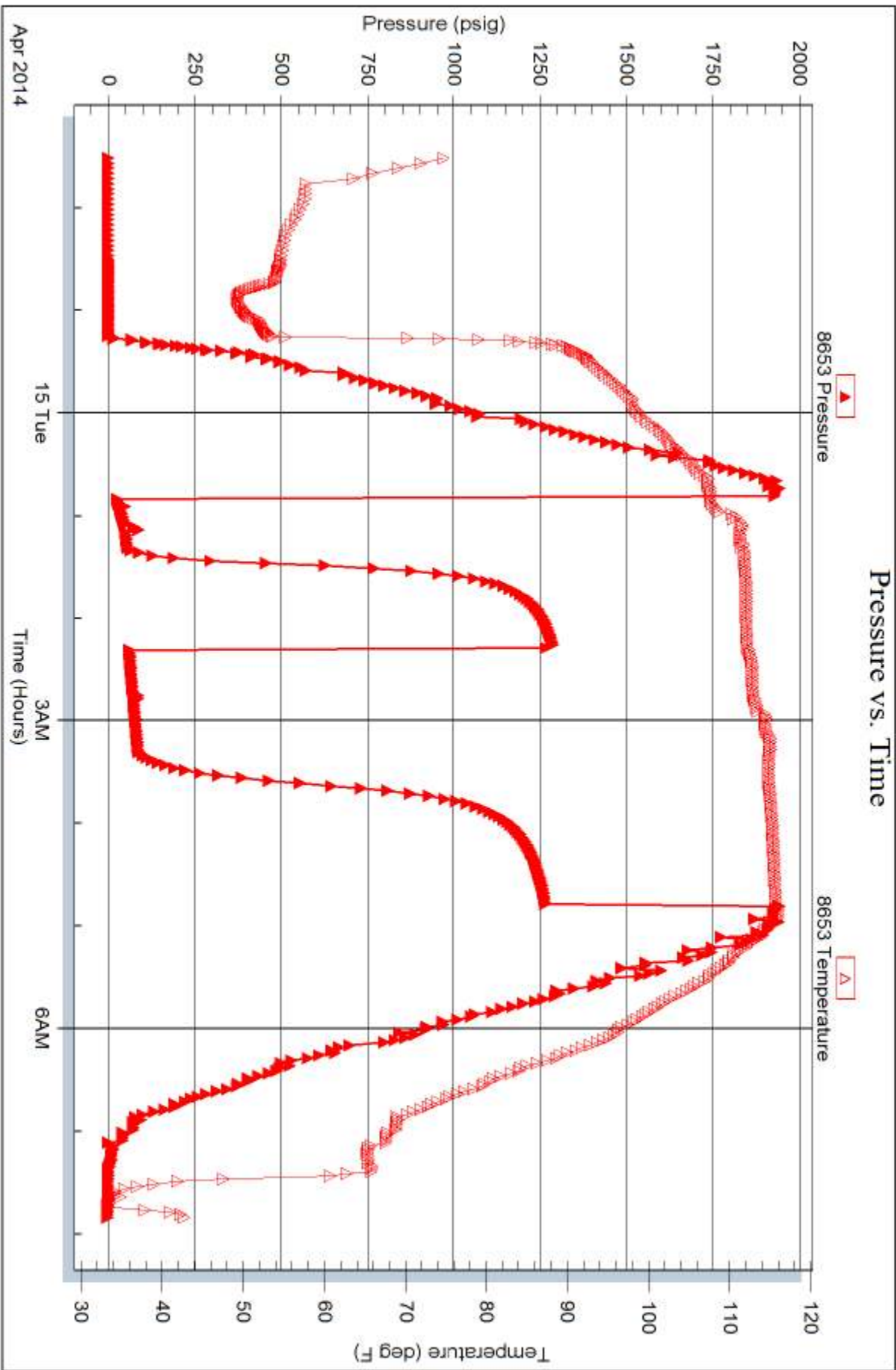
Serial #:

Laboratory Name:

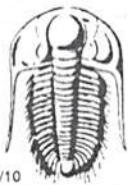
Laboratory Location:

Recovery Comments:









# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 55737

4/10

Well Name & No. Rex 1-28 Test No. 1 Date 4-13-14  
 Company Murfin Drilling Co Elevation 2955 KB 2950 GL  
 Address 250 N Water St 300 Wichita, KS 67202  
 Co. Rep / Geo. Bob Stolze Rig Murfin 7  
 Location: Sec. 28 Twp. 4S Rge. 31W Co. Rawlins State KS

Interval Tested 3918 4010 Zone Tested Lensing A-B  
 Anchor Length 92 Drill Pipe Run 3859 Mud Wt. 9.0  
 Top Packer Depth 3913 Drill Collars Run 62 Vis 47  
 Bottom Packer Depth 3918 Wt. Pipe Run — WL 6.0  
 Total Depth 4010 Chlorides 800 ppm System LCM 5

Blow Description IF: BOB in 4 min,  
IS: No return,  
FF: BOB in 6 min,  
FS: No return,

Rec	Feet of	%gas	%oil	%water	%mud
<u>248</u>	<u>MW</u>			<u>50</u>	<u>50</u>
<u>248</u>	<u>MW</u>			<u>90</u>	<u>10</u>
<u>620</u>	<u>water</u>			<u>100</u>	

Rec Total 1116 BHT 125 Gravity — API RW .12 @ 44 °F Chlorides 125,000 ppm

(A) Initial Hydrostatic 1933  Test 1250 T-On Location 00:50  
 (B) First Initial Flow 91  Jars 250 T-Started 2:45  
 (C) First Final Flow 315  Safety Joint 75 T-Open 5:15  
 (D) Initial Shut-In 1265  Circ Sub N/C T-Pulled 8:15  
 (E) Second Initial Flow 334  Hourly Standby — T-Out 11:15  
 (F) Second Final Flow 515  Mileage 190 - 83.70  
 (G) Final Shut-In 1260  Sampler —  
 (H) Final Hydrostatic 1870  Straddle —

Ruined Shale Packer —  
 Ruined Packer —  
 Extra Packer —  
 Extra Copies —  
 Initial Open 30  
 Initial Shut-In 60  
 Final Flow 30  
 Final Shut-In 60  
 Day Standby —  
 Accessibility —  
 Sub Total 1658.70  
 Sub Total 1658.70

Approved By Robert Stolze, Agent Our Representative [Signature]

TriLOBite Testing Inc. shall not be liable for damaged in 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. 56975

4/10

Well Name & No. Rex #1-28 Test No. 2 Date 4-13-14  
 Company Murphy Drilling Co., Inc. Elevation 2955 KB 2950 GL  
 Address 250 N Water STE #3000 Wichita, KS 67202  
 Co. Rep / Geo. Bob Stolzie Rig Murphy #7  
 Location: Sec. 28 Twp. 4S Rge. 31 W Co. Rawlins State KS

Interval Tested 4022-4060 Zone Tested LKC "F-6"  
 Anchor Length 38' Drill Pipe Run 3960 Mud Wt. 9.1  
 Top Packer Depth 4018 Drill Collars Run 61 Vis 58  
 Bottom Packer Depth 4022 Wt. Pipe Run 0 WL 5.6  
 Total Depth 4060 Chlorides 800 ppm System LCM 8#

Blow Description IF-1/4" Blow built to 6"  
ISI- NO Return  
FF-Surface Blow started at 2 min. Built to BoB @ 50 min.  
FSI- NO Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>72</u>	<u>WM</u>		<u>50</u>	<u>50</u>	
<u>124</u>	<u>MW</u>		<u>90</u>	<u>10</u>	

Rec Total 196' BHT 123 Gravity — API RW 15 @ 41 ° F Chlorides 85,000 ppm

(A) Initial Hydrostatic <u>1917</u>	<input checked="" type="checkbox"/> Test <u>1250</u>	T-On Location <u>9:00 PM</u>
(B) First Initial Flow <u>19</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>9:26 PM</u>
(C) First Final Flow <u>57</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>11:55 PM</u>
(D) Initial Shut-In <u>1258</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>3:55 AM</u>
(E) Second Initial Flow <u>60</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>6:50 AM</u>
(F) Second Final Flow <u>108</u>	<input checked="" type="checkbox"/> Mileage <u>54 RT</u> 83.70	Comments
(G) Final Shut-In <u>1249</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>1917</u>	<input type="checkbox"/> Straddle	

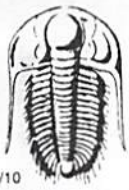
Initial Open 30  
 Initial Shut-In 60  
 Final Flow 60  
 Final Shut-In 90

Ruined Shale Packer  
 Ruined Packer  
 Extra Copies  
 Sub Total 0  
 Total 1658.70  
 MP/DST Disc't

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. 56826

Well Name & No. Rex #1-28 Test No. 3 Date 4-14-14  
 Company Murfin Drilling Co, Inc Elevation 2955 KB 2950 GL  
 Address 250 N Webster STE #3000 Wichita, KS 67202  
 Co. Rep / Geo. Bob Stolze Rig Murfin #7  
 Location: Sec. 28 Twp. 4S Rge. 31W Co. Rawlins State KS

Interval Tested 4057-4170 Zone Tested LKC "G, H, J, K"  
 Anchor Length 113' Drill Pipe Run 3993' Mud Wt. 8.8  
 Top Packer Depth 4053 Drill Collars Run 61' Vis 47  
 Bottom Packer Depth 4057 Wt. Pipe Run 0 WL 6.8  
 Total Depth 4170 Chlorides 1,400 ppm System LCM 6#  
 Blow Description IF-3/4" Blow built to 5 1/4"  
ISI-NO Return  
FF-Surface Blow built to 9"  
FSI-NO Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>1</u>	<u>Free oil</u>	<u>100</u>			
<u>78</u>	<u>OCM</u>	<u>30</u>		<u>70</u>	
<u>60</u>	<u>OCM</u>	<u>10</u>		<u>80</u>	
<del>100</del>					

Rec Total 139 BHT 116 Gravity - API RW - @ - °F Chlorides - ppm

(A) Initial Hydrostatic <u>1923</u>	<input checked="" type="checkbox"/> Test <u>1250</u>	T-On Location <u>9:00 PM</u>
(B) First Initial Flow <u>21</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>9:30 PM</u>
(C) First Final Flow <u>51</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>12:50 AM</u>
(D) Initial Shut-In <u>1284</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>4:50 AM</u>
(E) Second Initial Flow <u>58</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>7:50 AM</u>
(F) Second Final Flow <u>83</u>	<input checked="" type="checkbox"/> Mileage <u>54 RT</u> 167.40	Comments <u>Was called to</u>
(G) Final Shut-In <u>1262</u>	<input type="checkbox"/> Sampler	<u>load tools 8:30 AM</u>
(H) Final Hydrostatic <u>1919</u>	<input type="checkbox"/> Straddle	<u>4-16-14</u>
	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Shale Packer
	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Ruined Packer
	<input type="checkbox"/> Extra Recorder	Sub Total <u>800</u>
	<input checked="" type="checkbox"/> Day Standby <u>1d .75h</u>	Total <u>2542.40</u>
	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1742.40</u>	

Approved By \_\_\_\_\_ Our Representative

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