

1227543

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

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

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

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No List All E. Logs Run: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

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

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

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

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

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

TUBING RECORD:	Size:	Set At:	Packer At:	Liner Run: <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> _____
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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	Burk Trust 'D' 3-23
Doc ID	1227543

All Electric Logs Run

DIL
DUCP
MEL
BHCS



acct.
Prod-MG

INVOICE

PO Box 93999
Southlake, TX 76092

Invoice Number: 143910

Invoice Date: Jun 18, 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	63343	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-01	Oakley	Jun 18, 2014	7/18/14

Quantity	Item	Description	Unit Price	Amount
1.00	WELL NAME	Burk Trust B #3-23		
220.00	CEMENT MATERIALS	Class A Common	17.90	3,938.00
620.00	CEMENT MATERIALS	ASC	1.10	682.00
230.99	CEMENT SERVICE	Cubic Feet Charge	2.48	572.86
905.25	CEMENT SERVICE	Ton Mileage Charge	2.75	2,489.44
1.00	CEMENT SERVICE	Surface	1,512.25	1,512.25
85.00	CEMENT SERVICE	Pump Truck Mileage	7.70	654.50
1.00	CEMENT SERVICE	Manifold Rental	275.00	275.00
85.00	CEMENT SERVICE	Light Vehicle Mileage	4.40	374.00
1.00	CEMENT SUPERVISOR	Alan Ryan		
1.00	EQUIPMENT OPERATOR	Kevin Ryan		

Subtotal	10,498.05
Sales Tax	364.98
Total Invoice Amount	10,863.03
Payment/Credit Applied	
TOTAL	10,863.03

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

\$ 3,674.31 *350*

ONLY IF PAID ON OR BEFORE
Jul 18, 2014

ok *sk* - 3674.31
7188.72

ALLIED OIL & GAS SERVICES, LLC 063343

Federal Tax I.D. # 20-8651475

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

SERVICE POINT:
Oakley Ky

DATE <u>6/18/14</u>	SEC. <u>23</u>	TWP. <u>1</u>	RANGE <u>36</u>	CALLED OUT	ON LOCATION	JOB START <u>1:00 p</u>	JOB FINISH <u>1:30 p</u>
LEASE <u>Back Trust</u>	WELL # <u>3-23</u>	LOCATION <u>Beardsley W to AA W to</u>		COUNTY <u>Boyd</u>	STATE <u>Ky</u>		
OLD OR NEW (Circle one)		<u>5.5 1/2 N W = 50 W = 70</u>					

CONTRACTOR MunFins 2 OWNER Same

TYPE OF JOB System
HOLE SIZE 12 1/4 T.D. 226'
CEMENT AMOUNT ORDERED 220 Gals 390 CC

CASING SIZE 8 5/8 DEPTH 226
TUBING SIZE DEPTH
DRILL PIPE DEPTH
TOOL DEPTH
PRES. MAX MINIMUM
MEAS. LINE SHOE JOINT
CEMENT LEFT IN CSG. 15'
PERFS.
DISPLACEMENT 13 1/4

EQUIPMENT
PUMP TRUCK CEMENTER Alex Ryan
423-281 HELPER Kevin Ryan
BULK TRUCK DRIVER Joel (TUS)
891
BULK TRUCK DRIVER
#

COMMON 220 @ 172 3938.00
POZMIX @
GEL @
CHLORIDE @
ASC 620 lb @ 110 682.00
Material Total @ 4620.00
(1677.00 / 35%)
HANDLING 230.00 @ 248 572.80
MILEAGE 27.5 mile @ 10.65 292.88
TOTAL

REMARKS:
Am City Circulate May Cant, Displace Cement. Short in

Cement incl Circulate
Thank you
MaFinn, Joel

CHARGE TO: MunFin Drilling
STREET
CITY STATE ZIP

SERVICE
DEPTH OF JOB
PUMP TRUCK CHARGE 1512.25
EXTRA FOOTAGE @
MILEAGE 85 @ 7.70 654.80
MANIFOLD @ 40 275.00
120 vehicle 85 @ 4 374.00
(2057.31 / 35%) TOTAL 5878.05

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 KELLY WILSON
SIGNATURE Kelly Wilson

SALES TAX (if Any)
TOTAL CHARGES 10,498.05
DISCOUNT 3,674.31 (35%) IF PAID IN 30 DAYS
6,823.73 Net

SWIFT



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



Invoice

DATE	INVOICE #
6/26/2014	25597

BILL TO
Murfin Drilling Co Inc PO Box 661 Colby, KS 67701-0661
USED FOR <u>IC 103</u>
APPROVED <u>JJ FH</u>

- Acidizing
- Cement
- Tool Rental

TERMS	Well No.	Lease	County	Contractor	Well Type	Well Category	Job Purpose	Operator
Net 30	#3-23	Burke Trust D	Rawlins	Company Tools	Oil	Development	Cement 5-1/2" L...	David

PRICE REF.	DESCRIPTION	QTY	UM	UNIT PRICE	AMOUNT
575D	Mileage - 1 Way	150	Miles	6.00	900.00
579D	Pump Charge - Top To Bottom LongString	1	Job	2,000.00	2,000.00
409-5	5 1/2" Turbolizer	15	Each	90.00	1,350.00T
403-5	5 1/2" Cement Basket	3	Each	300.00	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
419-5	5 1/2" Rotating Head Rental	1	Each	200.00	200.00T
325	Standard Cement	200	Sacks	14.50	2,900.00T
284	Calseal	9	Sack(s)	35.00	315.00T
283	Salt	1,000	Lb(s)	0.20	200.00T
285	CFR-1	150	Lb(s)	4.50	675.00T
276	Flocele	125	Lb(s)	2.50	312.50T
330	Swift Multi-Density Standard (MIDCON II)	300	Sacks	18.50	5,550.00T
290	D-Air	5	Gallon(s)	42.00	210.00T
281	Mud Flush	500	Gallon(s)	1.25	625.00T
221	Liquid KCL (Clayfix)	4	Gallon(s)	25.00	100.00T
581D	Service Charge Cement	500	Sacks	2.00	1,000.00
583D	Drayage	3,806.48	Ton Miles	1.00	3,806.48
	Subtotal				21,693.98
	Sales Tax Rawlins County			7.90%	1,105.01

We Appreciate Your Business!	Total	\$22,798.99
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CHARGE TO: Murfin Drilling Co.
 ADDRESS: _____
 CITY, STATE, ZIP CODE: _____

TICKET 25597

PAGE 1 OF 2

SERVICE LOCATIONS

1. ~~3-23~~ KS WELL/PROJECT NO. 3-23 LEASE Bark Trust D COUNTY/PARISH Raulins STATE KS CITY Bardsley DATE 6-26-14 OWNER _____

2. KS TICKET TYPE SALES CONTRACTOR Co. Tools RIG NAME/NO. #2 SHIPPED VIA CT DELIVERED TO Location ORDER NO. _____

3. WELL TYPE Oil WELL CATEGORY Development JOB PURPOSE Cement 5 1/2" Logging string WELL PERMIT NO. _____

4. REFERRAL LOCATION _____ INVOICE INSTRUCTIONS _____ WELL LOCATION Bardsley, KS - 5 1/2" w, 4 1/2" w

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	MILEAGE	QTY.			UNIT PRICE	AMOUNT	
		LOC	ACCT	DF			QTY.	UM	QTY.			UM
575					Trk # 113				150	m.	6.00	900.00
579					Pump Charge - Top to Bottom Turbolizers				1	job	2000.00	2000.00
409									15	ea	90.00	1350.00
403					Cement Baskets				3	ea	300.00	900.00
406					Loch Down Plug + Baffle				1	ea	275.00	275.00
407					Insert Flat Spool/Auto Fill				1	ea	375.00	375.00
419					Rotating Head Rental				1	job	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 David Walsh DATE SIGNED 6-26-14 TIME SIGNED 1:00 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	6000.00
TOTAL	2	15693.98
		21,693.98
		1,125.01
		7.9%
TOTAL		22,798.99

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

SWIFT OPERATOR David Walsh APPROVAL _____

Thank You!

JOB LOG

SWIFT Services, Inc.

DATE 8-26-14 PAGE NO.

CUSTOMER
Marfin Drilling Co

WELL NO.
3-23

LEASE
Bark Trust D

JOB TYPE
Cement 5 1/2" Longstring

TICKET NO.
25597

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1815							on location
								TD - 4525 5 1/2" 15.5"
								TP - 4518 SJ - #1 2.125
								Turbolizers - 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 12, 14, 16, 33, 52
								Baskets - 17, 34, 59
	1925							Start 5 1/2" 15.5" Casing in well
	2030							circulate on JT #60 (Half of string) 30 min
	2150							Drop Ball Circulate - Rotate -
	2250	6 1/2	12		✓	450		Pump 500 gal Muel Flush
		6 1/2	20		✓			Pump 20 bbl HCL Flush
			17-H					Plug RH - MH (30 - 20)
	2305	5	138		✓	400		mix 250 sks SMD @ 11.2 ppq
		4 1/2	48		✓	200		mix 200 sks EA-2 @ 15.5 ppq
								wash out Pump + Lines
								Release Latch Down Plug
	2355	6 1/2	∅		✓	100		Start Displacement
		6 1/2	40		✓	400		Lift Pressure
		6 1/2	106		✓	1200		Max Lift Pressure
6-27-14	00015	6 1/2	107		✓	1750		Land Latch Down Plug
								Release Pressure - Hold -
								circulate 25 sks cement to pit
								wash up truck
	0045							Job Complete

Thank You
Dave Jan Rob Issac

Burk Trust 'D' #3-23
 Daily Drilling Report
 Page Two

- 6/24/14 Depth 4290'. Cut 64'. DT: None. CT: 20hrs. Dev.: None. **LKC G**: Ls., crm, fn-med xln, fr intxln & foss por, pt dns, calc, sli suc, hd to chky, blk, scat blk spkld stn, Tr pp FO bld, irid OCW, bri gn fluor, fnt odr, S-FSFO. **DST #3 4238-4290 (LKC G)**: 30-60-30-60. IF: surf blw built up to 8.5". FF: surf blw built to BOB in 44mins. Rec.: 63' OCM (65%M, 35%O), 140'O. HP: 2166-2090. FP: 14/55, 67/98. SIP: 521-517. BHT: 138°. TIH after DST #3 lost circ 2273, 2432, 3378.
- 6/25/14 Depth 4389'. Cut 99'. DT: 2¼ hrs mix mud. CT: 14¼ hrs. Dev.: 1¼° @ 4389'. **LKC J**: Ls., crm/wht, fn xln, pr intxln & foss por, Tr vug por, calc, hd to chky, blk, scat dk brn/blk sptd stn, lt pt sat, rr pp FO bld, Tr G Bubles, sli irid OCW, dl yel fluor, no odr, VSSFO. **DST #4326-4389 (LKC J)**: 30-60-30-60. IF: Weak, surf blw. FF: No blw. Rec.: 3' M (100%M), HP: 2181-2060. FP: 18/21, 20/22. SIP: 740-514. BHT: 136°.
- 6/26/14 RTD 4525'. Cut 136'. DT: None. CT: 14hrs. Dev.: ¾° @ 4525'. HC @ 9:00PM 6/25. Pioneer logging. LTD 4526'.
- 6/27/14 RTD 4525'. CT: 21¼ hrs. Pioneer logged from 7:00AM TO 10:45AM 6/26/14. Ran 107jts = 4520' of 5½" prod csg set @ 4518'. Swift cmt w/450sxs, 250 SMD, 200 EA-2. PD @ 12:15AM 6/27/14, circ 25sxs, 30sxs RH, 20sxs MH. RR @ 4:15 AM 6/27/14. FINAL REPORT.

MDCI Burk Trust 'D' #3-23 1320' FSL 330' FWL Sec. 23-T1S-R36W 3226' KB							MDCI Burk Trust 'D' #1-23 1980' FSL 660' FWL Sec. 23-T1S-R36W 3213' KB	
Formation	Sample top	Datum	Ref	Log Top	Datum	Ref	Log Top	Datum
Anhydrite	3120	+106	+9	3122	+104	+7	3116	+97
B/Anhydrite	3158	+68	+3	3158	+68	+3	3148	+65
Neva	3610	-384	+7	3610	-384	+7	3604	-391
Red Eagle	3672	-446	+5	3671	-445	+6	3664	-451
Foraker	3722	-496	+3	3720	-494	+5	3712	-499
Topeka	3938	-712	+4	3934	-708	+8	3929	-716
Oread	4050	-824	+4	4057	-831	-3	4041	-828
Lansing	4154	-928	+4	4153	-927	+5	4145	-932
Stark	4374	-1148	+4	4372	-1146	+6	4365	-1152
BKC	4424	-1198	+2	4422	-1196	+4	4413	-1200
RTD	4525	-1299					4505	-1292
LTD				4526	-1300		4505	-1292



DRILL STEM TEST REPORT

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

250 N. Water Ste. 300
Wichita, KS 67602

ATTN: Saman Sharifaie

Burk Trust "D" #3-23

23-1s-36w Rawlins,KS

Start Date: 2014.06.22 @ 02:24:00

End Date: 2014.06.22 @ 09:19:30

Job Ticket #: 58319 DST #: 1

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

Printed: 2014.06.27 @ 15:30:21



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Co., Inc.

23-1s-36w Rawlins,KS

250 N. Water Ste. 300
Wichita, KS 67602

Burk Trust "D" #3-23

Job Ticket: 58319

DST#: 1

ATTN: Saman Sharifaie

Test Start: 2014.06.22 @ 02:24:00

GENERAL INFORMATION:

Formation: **Oread**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:26:45

Time Test Ended: 09:19:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Royal Fisher

Unit No: 44

Interval: 4024.00 ft (KB) To 4080.00 ft (KB) (TVD)

Reference Elevations: 3226.00 ft (KB)

Total Depth: 4080.00 ft (KB) (TVD)

3215.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

Serial #: 8368

Inside

Press@RunDepth: 16.98 psig @ 4025.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.06.22

End Date:

2014.06.22

Last Calib.:

2014.06.22

Start Time: 02:24:05

End Time:

09:19:29

Time On Btm:

2014.06.22 @ 04:26:30

Time Off Btm:

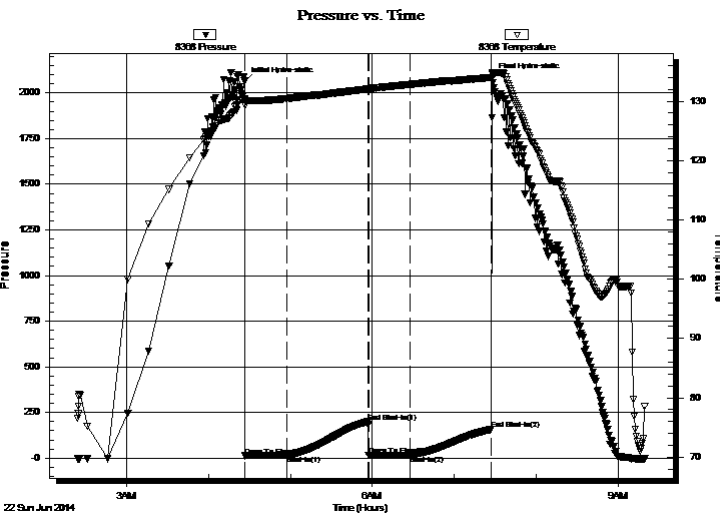
2014.06.22 @ 07:28:00

TEST COMMENT: 30 - IF - Weak Surface Blow

60 - ISI - No Return

30 - FF - No Surface Blow

60 - FSI - No Return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2063.73	130.37	Initial Hydro-static
1	13.15	129.31	Open To Flow (1)
31	16.06	130.44	Shut-In(1)
91	199.46	132.05	End Shut-In(1)
91	16.14	132.09	Open To Flow (2)
122	16.98	132.84	Shut-In(2)
181	158.07	134.00	End Shut-In(2)
182	2084.28	134.80	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2.00	Mud	0.01

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co., Inc.

23-1s-36w Rawlins,KS

250 N. Water Ste. 300
Wichita, KS 67602

Burk Trust "D" #3-23

Job Ticket: 58319

DST#: 1

ATTN: Saman Sharifaie

Test Start: 2014.06.22 @ 02:24:00

Tool Information

Drill Pipe:	Length: 3820.82 ft	Diameter: 3.80 inches	Volume: 53.60 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: 203.46 ft	Diameter: 2.25 inches	Volume: 1.00 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 54.60 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	27.28 ft			String Weight: Initial 70000.00 lb
Depth to Top Packer:	4024.00 ft			Final 70000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	56.00 ft			
Tool Length:	83.00 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			4002.00	
Hydraulic tool	5.00			4007.00	
Jars	5.00			4012.00	
Safety Joint	3.00			4015.00	
Packer	4.00			4019.00	27.00 Bottom Of Top Packer
Packer	5.00			4024.00	
Stubb	1.00			4025.00	
Recorder	0.00	8368	Inside	4025.00	
Recorder	0.00	6753	Inside	4025.00	
Perforations	18.00			4043.00	
Change Over Sub	1.00			4044.00	
Drill Pipe	31.00			4075.00	
Change Over Sub	1.00			4076.00	
Bullnose	4.00			4080.00	56.00 Bottom Packers & Anchor

Total Tool Length: 83.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co., Inc.

23-1s-36w Rawlins,KS

250 N. Water Ste. 300
Wichita, KS 67602

Burk Trust "D" #3-23

Job Ticket: 58319

DST#: 1

ATTN: Saman Sharifaie

Test Start: 2014.06.22 @ 02:24:00

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: 62.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.98 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 600.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2.00	Mud	0.010

Total Length: 2.00 ft Total Volume: 0.010 bbl

Num Fluid Samples: 0

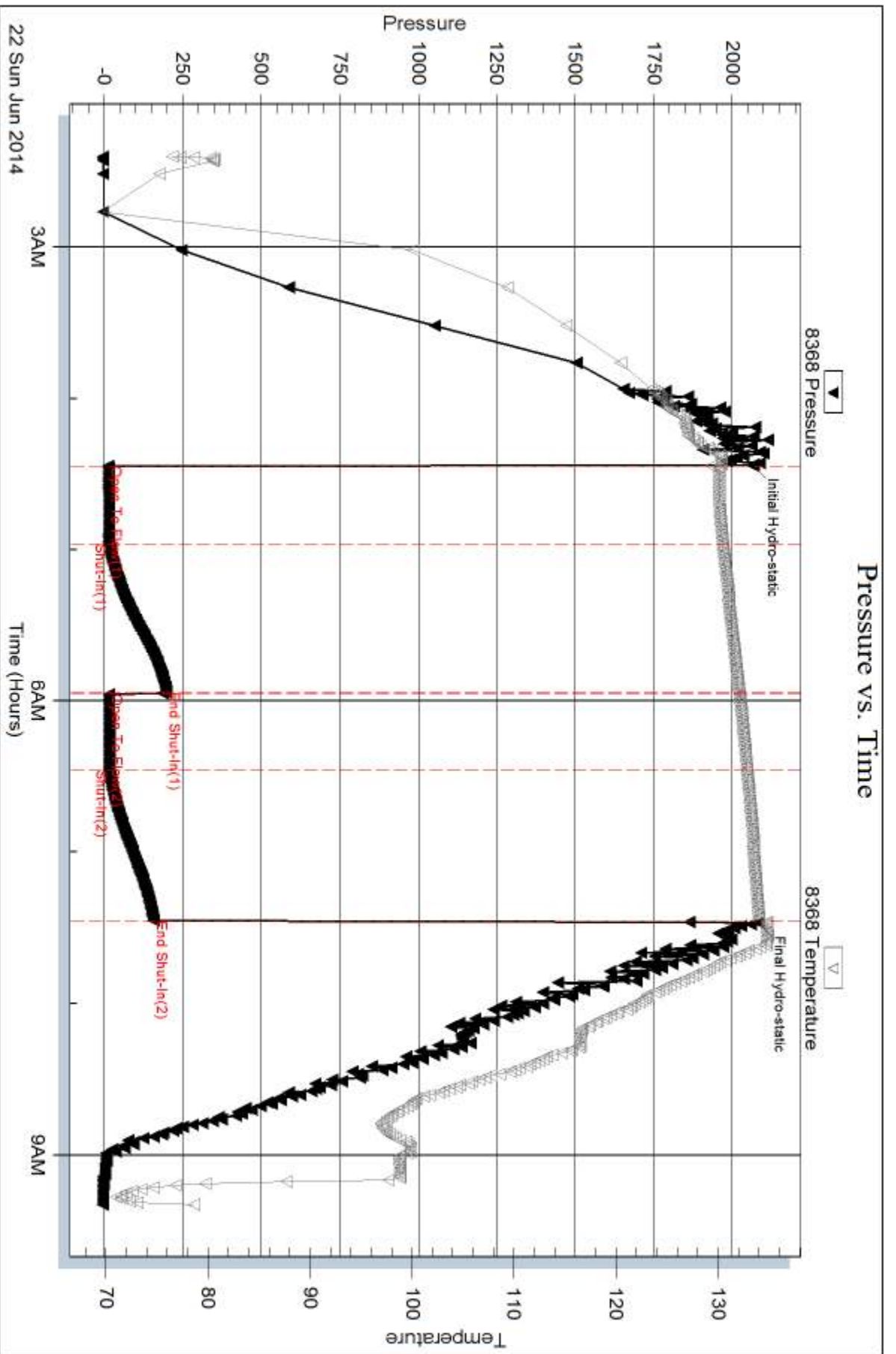
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



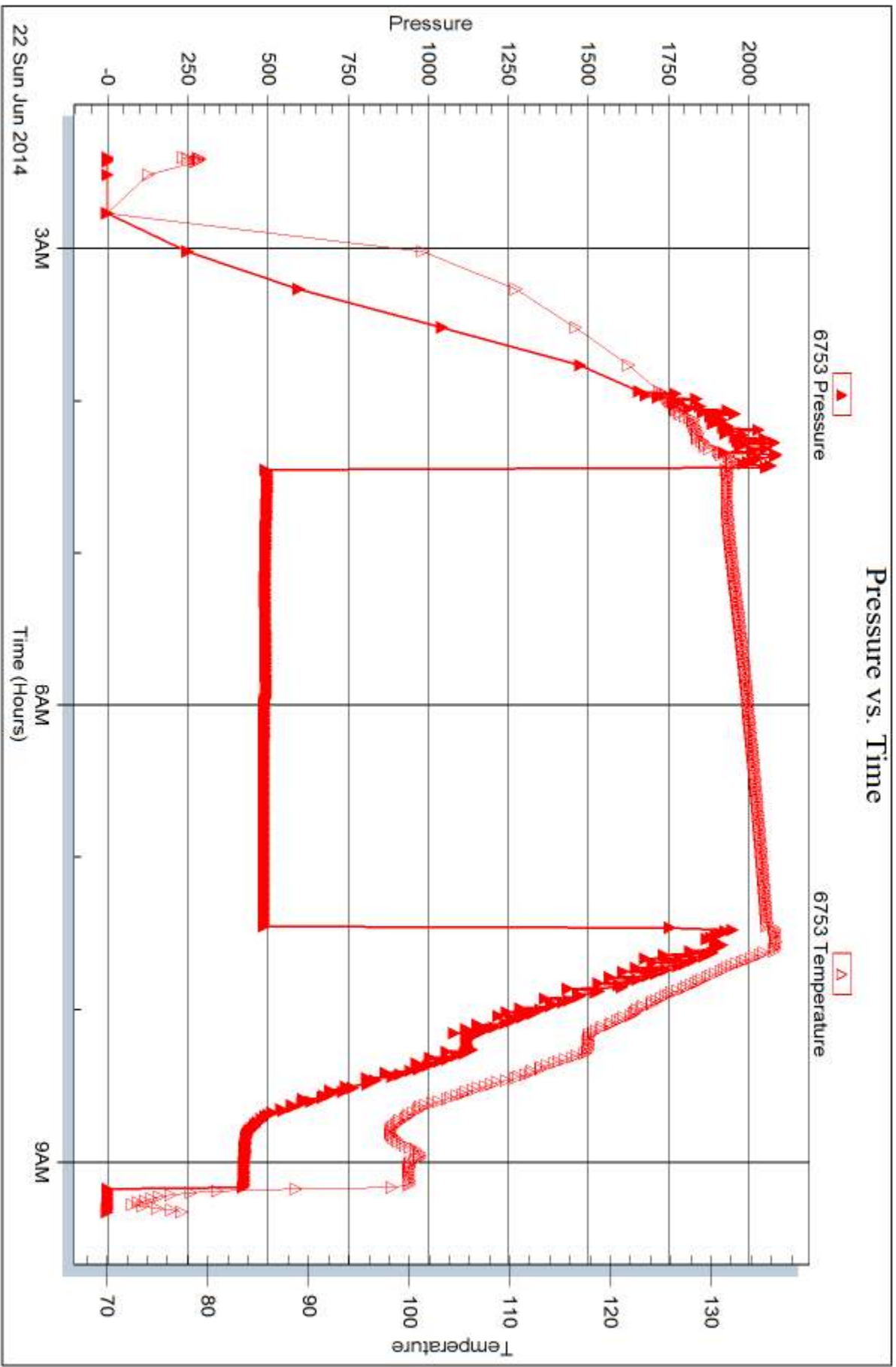
Serial #: 6753

Inside

Murfin Drilling Co., Inc.

Burk Trust "D" #3-23

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 58319

Printed: 2014.06.27 @ 15:30:23



DRILL STEM TEST REPORT

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

250 N. Water Ste. 300
Wichita, KS 67602

ATTN: Saman Sharifaie

Burk Trust "D" #3-23

23-1s-36w Rawlins,KS

Start Date: 2014.06.23 @ 00:18:00

End Date: 2014.06.23 @ 09:08:45

Job Ticket #: 58320 DST #: 2

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

Printed: 2014.06.27 @ 15:29:31

Murfin Drilling Co., Inc.

23-1s-36w Rawlins,KS

Burk Trust "D" #3-23

DST # 2

LKC - 'B-D'

2014.06.23



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Co., Inc.

23-1s-36w Rawlins,KS

250 N. Water Ste. 300
Wichita, KS 67602

Burk Trust "D" #3-23

Job Ticket: 58320

DST#: 2

ATTN: Saman Sharifaie

Test Start: 2014.06.23 @ 00:18:00

GENERAL INFORMATION:

Formation: **LKC - 'B-D'**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:41:15

Time Test Ended: 09:08:45

Test Type: Conventional Bottom Hole (Initial)

Tester: Royal Fisher

Unit No: 44

Interval: 4170.00 ft (KB) To 4226.00 ft (KB) (TVD)

Reference Elevations: 3226.00 ft (KB)

Total Depth: 4226.00 ft (KB) (TVD)

3215.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

Serial #: 6753

Inside

Press@RunDepth: 134.64 psig @ 4171.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.06.23

End Date:

2014.06.23

Last Calib.:

2014.06.22

Start Time: 00:18:05

End Time:

09:08:45

Time On Btm:

2014.06.23 @ 02:41:00

Time Off Btm:

2014.06.23 @ 06:43:45

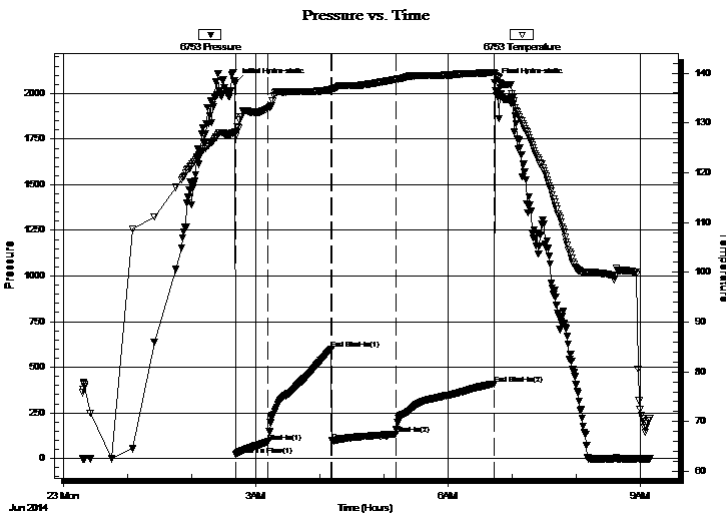
TEST COMMENT: 30 - IF - Surface Blow built to 9"

60 - ISI - No Return

60 - FF - Surface Blow built to 9 1/2"

90 - FSI - No Return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2058.81	128.25	Initial Hydro-static
1	20.38	127.35	Open To Flow (1)
31	90.73	132.93	Shut-In(1)
90	601.18	136.65	End Shut-In(1)
91	97.56	136.43	Open To Flow (2)
150	134.64	138.72	Shut-In(2)
242	409.37	140.15	End Shut-In(2)
243	2061.40	139.92	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
189.00	OCWM - 65M - 20W - 15o	0.93
63.00	OCWM - 60M - 15W - 25o	0.75
31.00	Free Oil	0.43

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co., Inc.

23-1s-36w Rawlins, KS

250 N. Water Ste. 300
Wichita, KS 67602

Burk Trust "D" #3-23

Job Ticket: 58320

DST#: 2

ATTN: Saman Sharifaie

Test Start: 2014.06.23 @ 00:18:00

Tool Information

Drill Pipe:	Length: 3947.84 ft	Diameter: 3.80 inches	Volume: 55.38 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: 203.46 ft	Diameter: 2.25 inches	Volume: 1.00 bbl	Weight to Pull Loose: 82000.00 lb
		Total Volume: 56.38 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	8.30 ft			String Weight: Initial 80000.00 lb
Depth to Top Packer:	4170.00 ft			Final 80000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	56.00 ft			
Tool Length:	83.00 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			4148.00	
Hydraulic tool	5.00			4153.00	
Jars	5.00			4158.00	
Safety Joint	3.00			4161.00	
Packer	4.00			4165.00	27.00 Bottom Of Top Packer
Packer	5.00			4170.00	
Stubb	1.00			4171.00	
Recorder	0.00	8368	Inside	4171.00	
Recorder	0.00	6753	Inside	4171.00	
Perforations	18.00			4189.00	
Change Over Sub	1.00			4190.00	
Drill Pipe	31.00			4221.00	
Change Over Sub	1.00			4222.00	
Bullnose	4.00			4226.00	56.00 Bottom Packers & Anchor

Total Tool Length: 83.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co., Inc.

23-1s-36w Rawlins,KS

250 N. Water Ste. 300
Wichita, KS 67602

Burk Trust "D" #3-23

Job Ticket: 58320

DST#: 2

ATTN: Saman Sharifaie

Test Start: 2014.06.23 @ 00:18:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

42 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.79 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 600.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
189.00	OCWM - 65M - 20W - 15o	0.929
63.00	OCWM - 60M - 15W - 25o	0.752
31.00	Free Oil	0.435

Total Length: 283.00 ft Total Volume: 2.116 bbl

Num Fluid Samples: 0

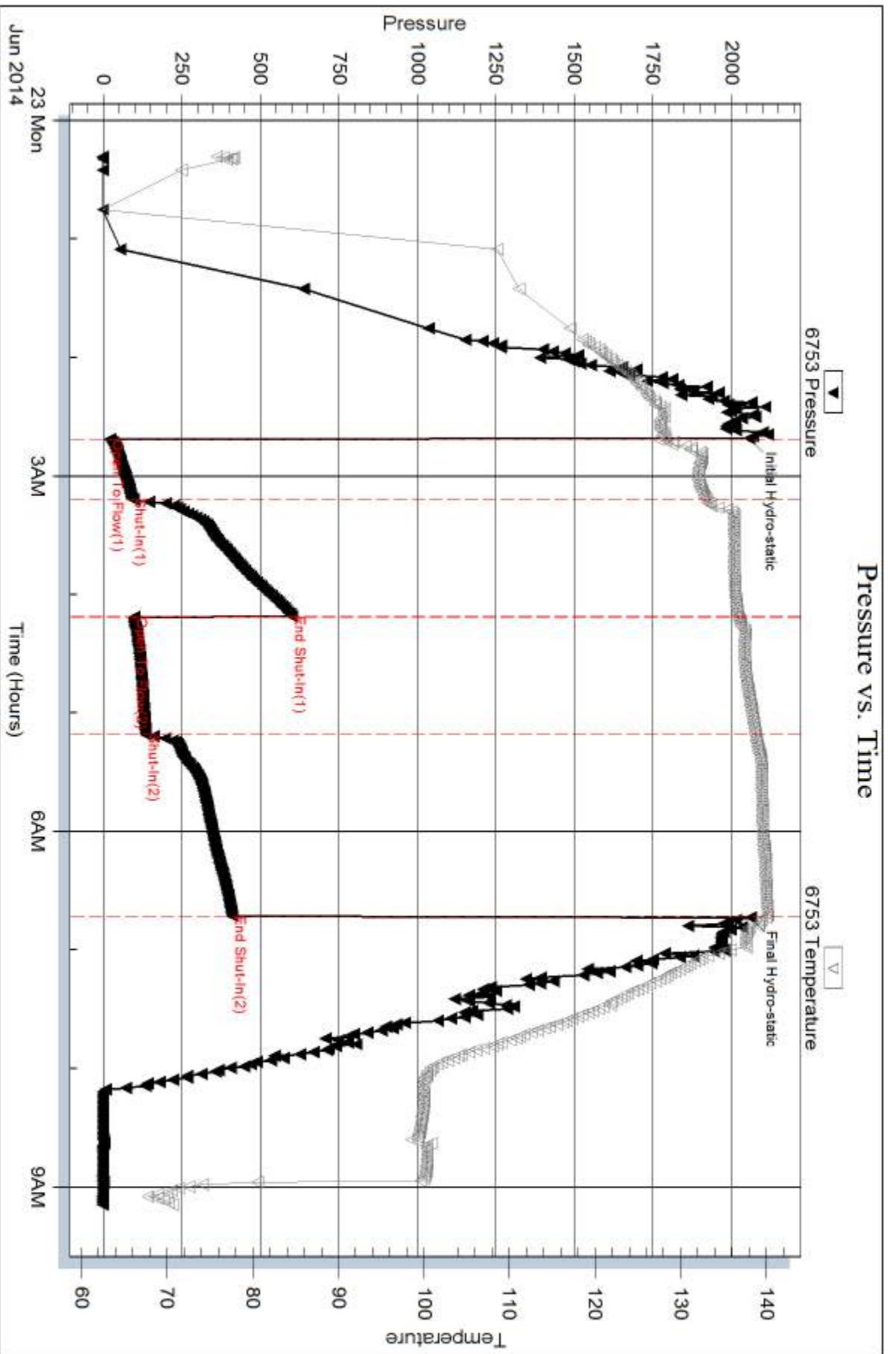
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



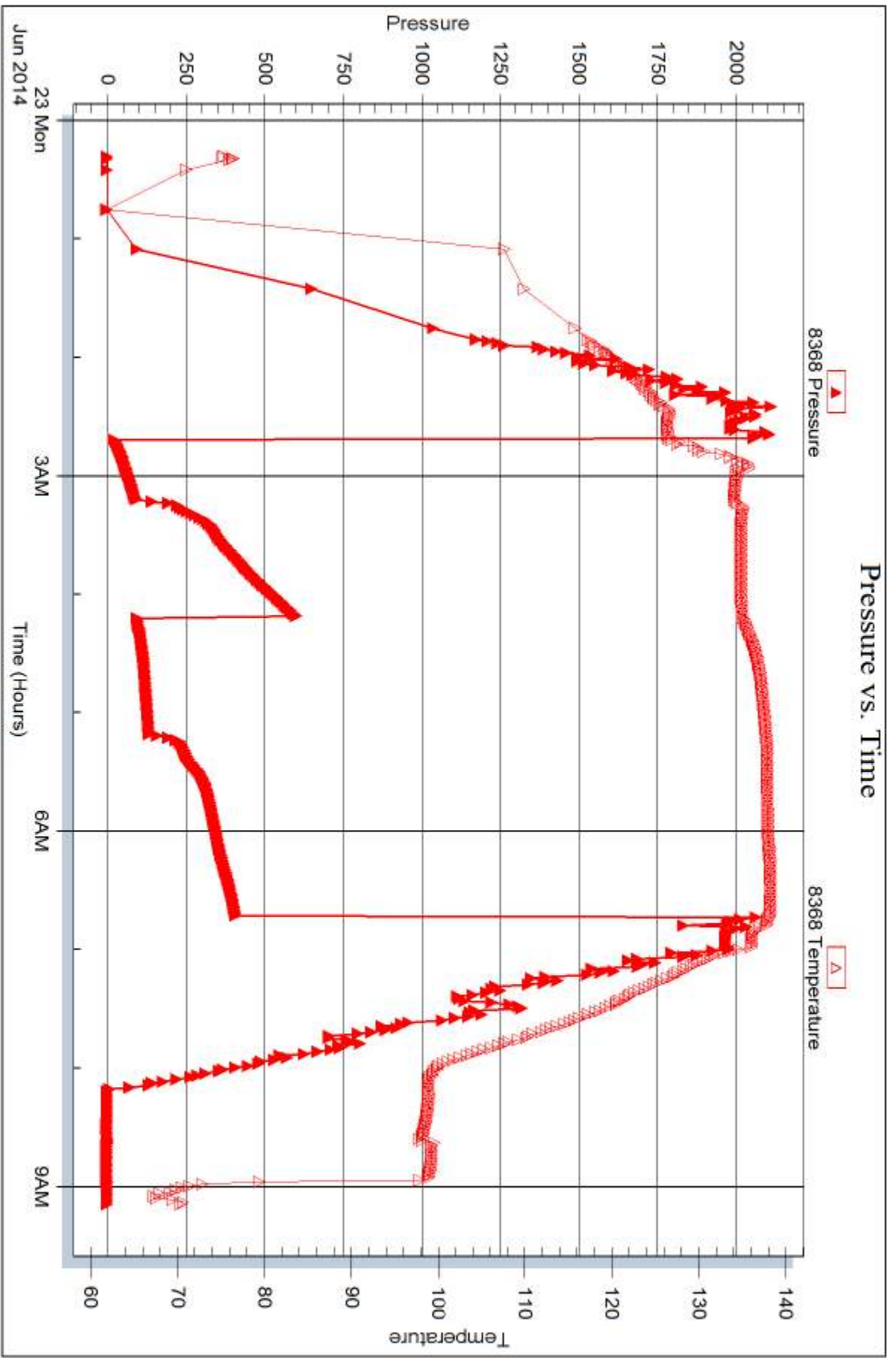
Serial #: 8368

Inside

Murfin Drilling Co., Inc.

Burk Trust "D" #3-23

DST Test Number: 2





DRILL STEM TEST REPORT

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

250 N. Water Ste. 300
Wichita, KS 67602

ATTN: Saman Sharifaie

Burk Trust "D" #3-23

23-1s-36w Rawlins,KS

Start Date: 2014.06.23 @ 18:58:00

End Date: 2014.06.24 @ 03:46:30

Job Ticket #: 58321 DST #: 3

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

Printed: 2014.06.27 @ 15:28:57



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Co., Inc.

23-1s-36w Rawlins,KS

250 N. Water Ste. 300
Wichita, KS 67602

Burk Trust "D" #3-23

Job Ticket: 58321

DST#: 3

ATTN: Saman Sharifaie

Test Start: 2014.06.23 @ 18:58:00

GENERAL INFORMATION:

Formation: **LKC - 'G'**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:16:00

Time Test Ended: 03:46:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Royal Fisher

Unit No: 44

Interval: 4238.00 ft (KB) To 4290.00 ft (KB) (TVD)

Reference Elevations: 3226.00 ft (KB)

Total Depth: 4290.00 ft (KB) (TVD)

3215.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

Serial #: 8368

Inside

Press@RunDepth: 97.75 psig @ 4239.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.06.23

End Date:

2014.06.24

Last Calib.:

2014.06.24

Start Time: 18:58:05

End Time:

03:46:30

Time On Btm:

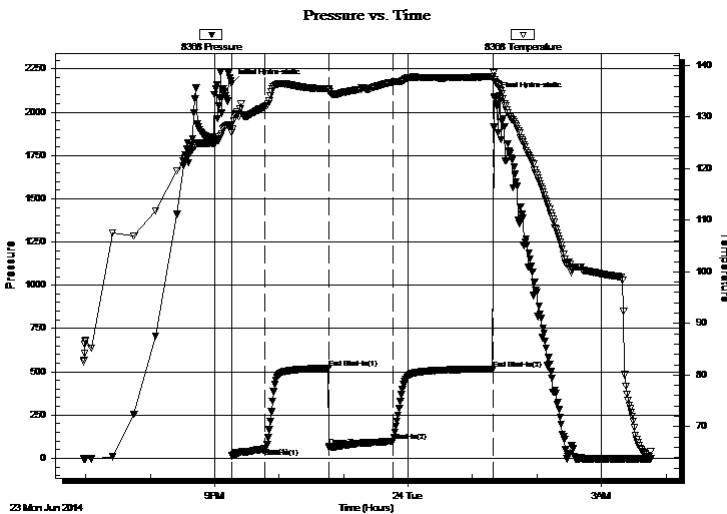
2014.06.23 @ 21:15:45

Time Off Btm:

2014.06.24 @ 01:20:30

TEST COMMENT: 30 - IF - Surface Blow built up to 8 1/2 inches
60 - ISI - No Return
60 - FF - Surface Blow built to bottom of the bucket in 44 minutes
90 - FSI - No Return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2166.10	128.50	Initial Hydro-static
1	14.24	127.03	Open To Flow (1)
31	55.00	132.06	Shut-In(1)
91	520.83	135.47	End Shut-In(1)
91	66.86	135.20	Open To Flow (2)
150	97.75	136.75	Shut-In(2)
243	516.84	137.89	End Shut-In(2)
245	2090.32	137.24	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
63.00	OCM - 65M - 35o	0.31
140.00	Free Oil	0.69

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 67602

ATTN: Saman Sharifaie

23-1s-36w Rawlins, KS

Burk Trust "D" #3-23

Job Ticket: 58321

DST#: 3

Test Start: 2014.06.23 @ 18:58:00

GENERAL INFORMATION:

Formation: **LKC - 'G'**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:16:00

Time Test Ended: 03:46:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Royal Fisher

Unit No: 44

Interval: 4238.00 ft (KB) To 4290.00 ft (KB) (TVD)

Reference Elevations: 3226.00 ft (KB)

Total Depth: 4290.00 ft (KB) (TVD)

3215.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

Serial #: 6753 Inside

Press@RunDepth: psig @ 4239.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.06.23

End Date:

2014.06.24

Last Calib.:

2014.06.24

Start Time: 18:58:05

End Time:

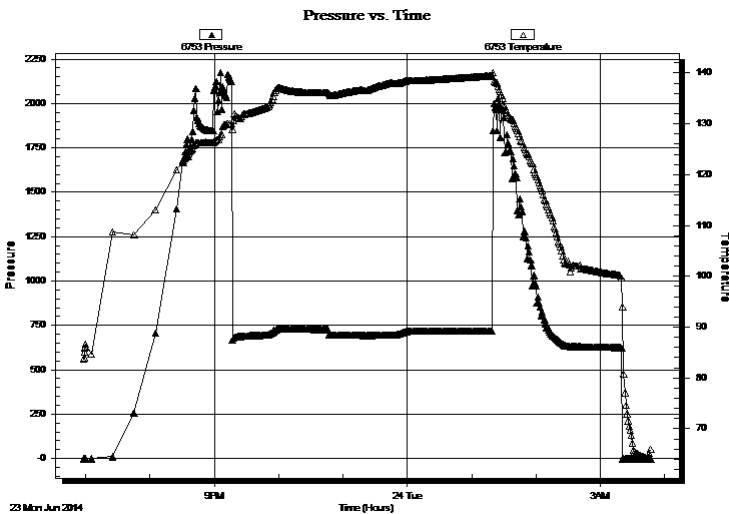
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Time On Btm:

Time Off Btm:

TEST COMMENT: 30 - IF - Surface Blow built up to 8 1/2 inches
60 - ISI - No Return
60 - FF - Surface Blow built to bottom of the bucket in 44 minutes
90 - FSI - No Return

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
63.00	OCM - 65M - 35o	0.31
140.00	Free Oil	0.69

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co., Inc.

23-1s-36w Rawlins,KS

250 N. Water Ste. 300
Wichita, KS 67602

Burk Trust "D" #3-23

Job Ticket: 58321

DST#: 3

ATTN: Saman Sharifaie

Test Start: 2014.06.23 @ 18:58:00

Tool Information

Drill Pipe:	Length: 4009.86 ft	Diameter: 3.80 inches	Volume: 56.25 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: 203.46 ft	Diameter: 2.25 inches	Volume: 1.00 bbl	Weight to Pull Loose: 90000.00 lb
			<u>Total Volume: 57.25 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	2.32 ft			String Weight: Initial 81000.00 lb
Depth to Top Packer:	4238.00 ft			Final 88000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	52.00 ft			
Tool Length:	79.00 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			4216.00	
Hydraulic tool	5.00			4221.00	
Jars	5.00			4226.00	
Safety Joint	3.00			4229.00	
Packer	4.00			4233.00	27.00 Bottom Of Top Packer
Packer	5.00			4238.00	
Stubb	1.00			4239.00	
Recorder	0.00	8368	Inside	4239.00	
Recorder	0.00	6753	Inside	4239.00	
Perforations	14.00			4253.00	
Change Over Sub	1.00			4254.00	
Drill Pipe	31.00			4285.00	
Change Over Sub	1.00			4286.00	
Bullnose	4.00			4290.00	52.00 Bottom Packers & Anchor

Total Tool Length: 79.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co., Inc.

23-1s-36w Rawlins,KS

250 N. Water Ste. 300
Wichita, KS 67602

Burk Trust "D" #3-23

Job Ticket: 58321

DST#: 3

ATTN: Saman Sharifaie

Test Start: 2014.06.23 @ 18:58:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

39 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 60.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.99 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 600.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
63.00	OCM - 65M - 35o	0.310
140.00	Free Oil	0.688

Total Length: 203.00 ft Total Volume: 0.998 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

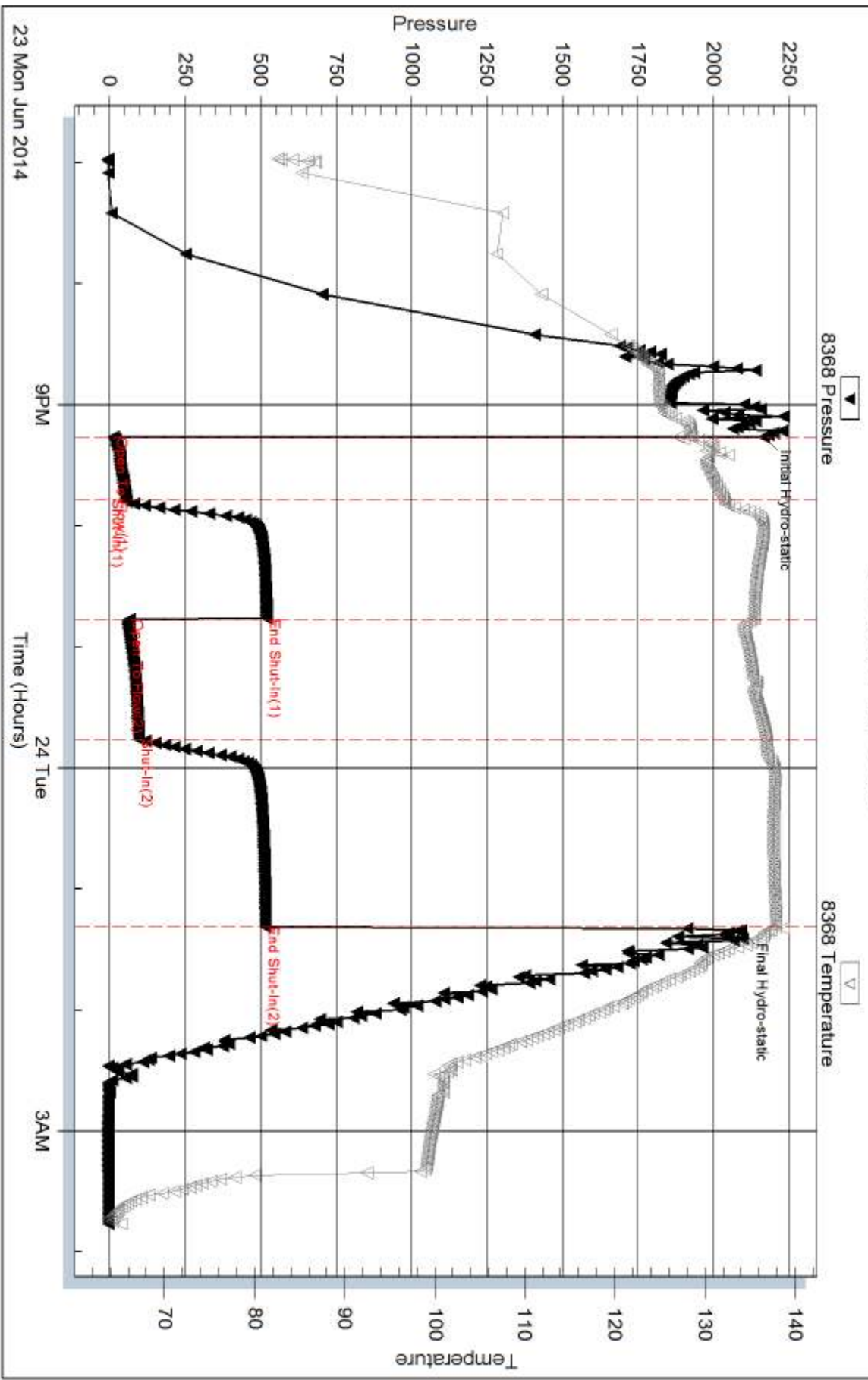
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time



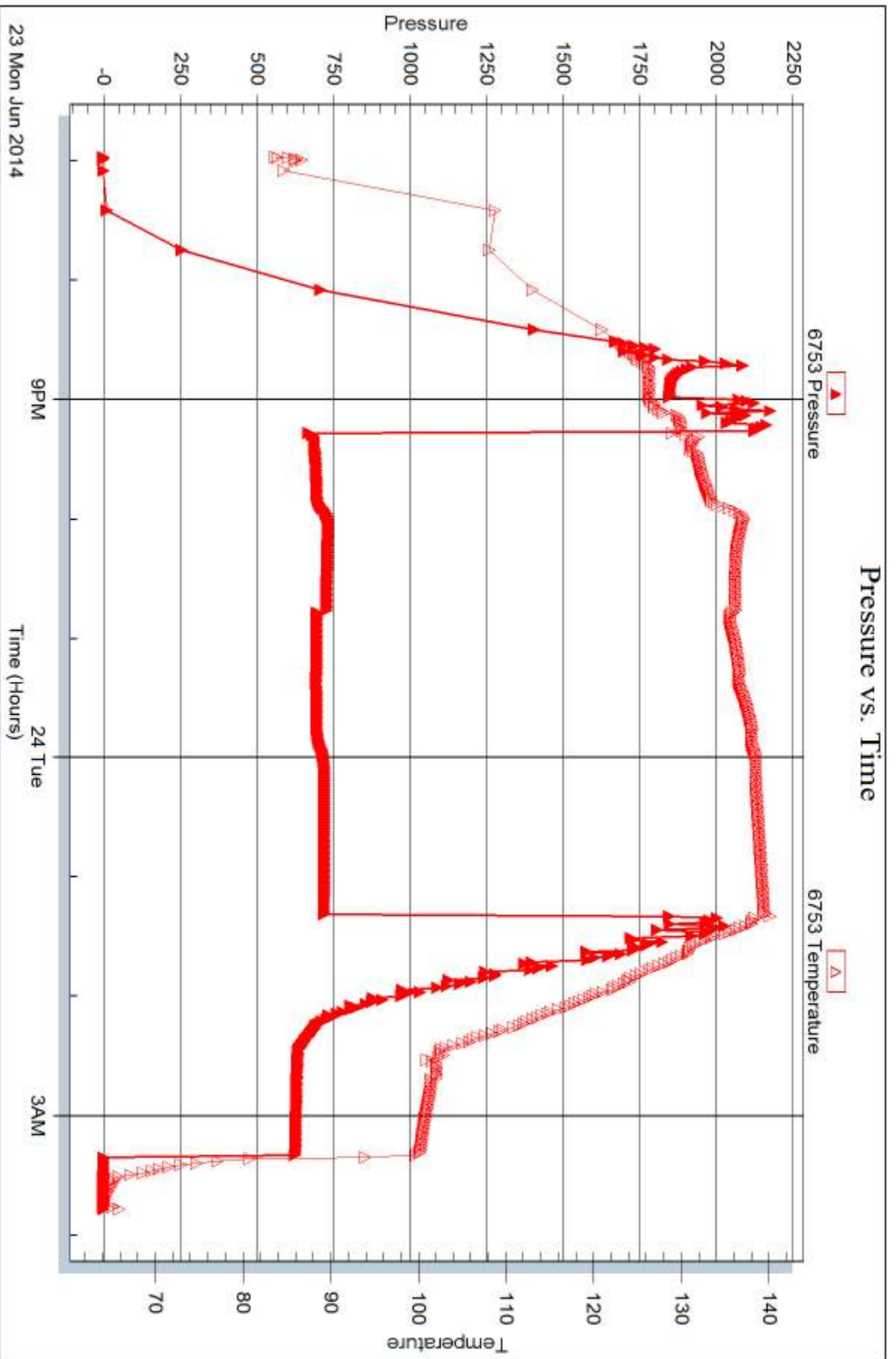
Serial #: 6753

Inside

Murfin Drilling Co., Inc.

Burk Trust "D" #3-23

DST Test Number: 3



Tribble Testing, Inc

Ref. No: 58321

Printed: 2014.06.27 @ 15:28:58



DRILL STEM TEST REPORT

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

250 N. Water Ste. 300
Wichita, KS 67602

ATTN: Saman Sharifaie

Burk Trust "D" #3-23

23-1s-36w Rawlins,KS

Start Date: 2014.06.25 @ 00:52:00

End Date: 2014.06.25 @ 08:39:30

Job Ticket #: 58322 DST #: 4

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

Printed: 2014.06.27 @ 15:27:54



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Co., Inc.

23-1s-36w Rawlins,KS

250 N. Water Ste. 300
Wichita, KS 67602

Burk Trust "D" #3-23

Job Ticket: 58322

DST#: 4

ATTN: Saman Sharifaie

Test Start: 2014.06.25 @ 00:52:00

GENERAL INFORMATION:

Formation: **LKC - 'J'**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:20:00

Time Test Ended: 08:39:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Royal Fisher

Unit No: 44

Interval: 4326.00 ft (KB) To 4390.00 ft (KB) (TVD)

Reference Elevations: 3226.00 ft (KB)

Total Depth: 4390.00 ft (KB) (TVD)

3215.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

Serial #: 6753

Inside

Press@RunDepth: 22.41 psig @ 4327.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.06.25

End Date:

2014.06.25

Last Calib.:

2014.06.25

Start Time: 00:52:05

End Time:

08:39:29

Time On Btm:

2014.06.25 @ 03:19:45

Time Off Btm:

2014.06.25 @ 06:20:30

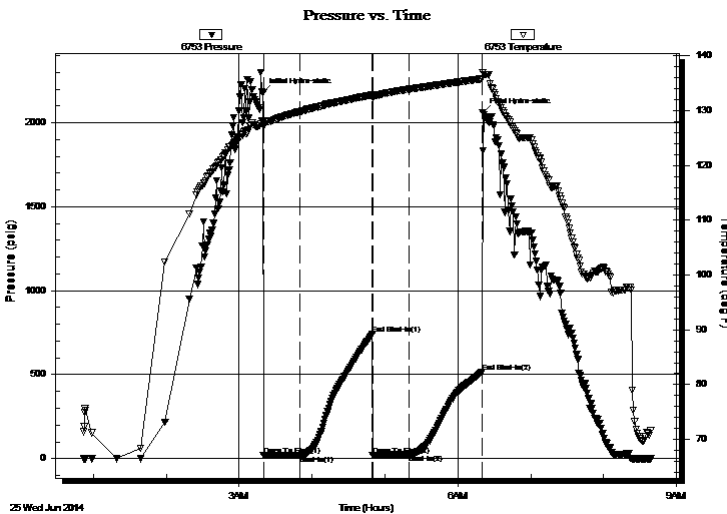
TEST COMMENT: 30 - IF - Surface blow started off with weak surface and died off after twenty minutes

60 - ISI - No Return

60 - FF - No Surface Blow

90 - FSI - No Return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2181.08	128.21	Initial Hydro-static
1	17.75	127.19	Open To Flow (1)
31	20.56	129.85	Shut-In(1)
90	740.11	132.89	End Shut-In(1)
91	20.40	132.40	Open To Flow (2)
120	22.41	133.93	Shut-In(2)
180	514.28	135.82	End Shut-In(2)
181	2060.19	137.00	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
3.00	Mud	0.01

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co., Inc.

23-1s-36w Rawlins,KS

250 N. Water Ste. 300
Wichita, KS 67602

Burk Trust "D" #3-23

Job Ticket: 58322

DST#: 4

ATTN: Saman Sharifaie

Test Start: 2014.06.25 @ 00:52:00

GENERAL INFORMATION:

Formation: **LKC - 'J'**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:20:00

Time Test Ended: 08:39:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Royal Fisher

Unit No: 44

Interval: 4326.00 ft (KB) To 4390.00 ft (KB) (TVD)

Reference Elevations: 3226.00 ft (KB)

Total Depth: 4390.00 ft (KB) (TVD)

3215.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

Serial #: 8368 Inside

Press@RunDepth: psig @ 4327.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.06.25

End Date:

2014.06.25

Last Calib.:

2014.06.25

Start Time: 00:52:05

End Time:

08:39:29

Time On Btm:

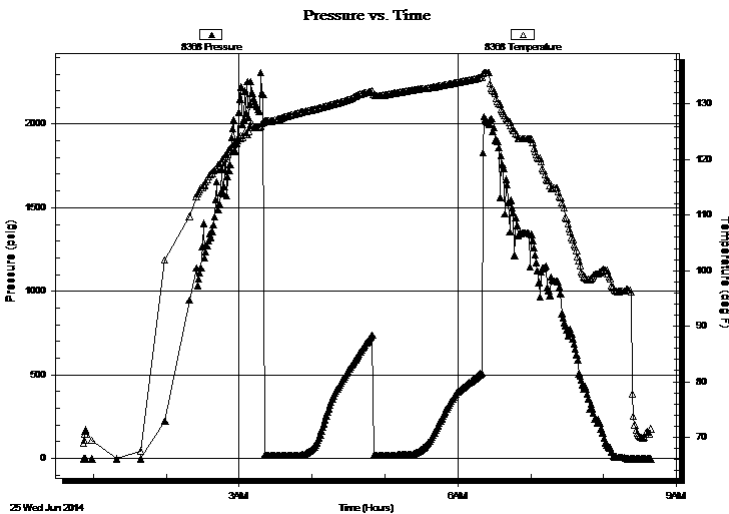
Time Off Btm:

TEST COMMENT: 30 - IF - Surface blow started off with weak surface and died off after twenty minutes

60 - ISI - No Return

60 - FF - No Surface Blow

90 - FSI - No Return



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
3.00	Mud	0.01

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co., Inc.

23-1s-36w Rawlins,KS

250 N. Water Ste. 300
Wichita, KS 67602

Burk Trust "D" #3-23

Job Ticket: 58322

DST#: 4

ATTN: Saman Sharifaie

Test Start: 2014.06.25 @ 00:52:00

Tool Information

Drill Pipe:	Length: 4104.44 ft	Diameter: 3.80 inches	Volume: 57.57 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: 203.46 ft	Diameter: 2.25 inches	Volume: 1.00 bbl	Weight to Pull Loose: 86000.00 lb
			<u>Total Volume: 58.57 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	8.90 ft			String Weight: Initial 84000.00 lb
Depth to Top Packer:	4326.00 ft			Final 84000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	64.00 ft			
Tool Length:	91.00 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			4304.00	
Hydraulic tool	5.00			4309.00	
Jars	5.00			4314.00	
Safety Joint	3.00			4317.00	
Packer	4.00			4321.00	27.00 Bottom Of Top Packer
Packer	5.00			4326.00	
Stubb	1.00			4327.00	
Recorder	0.00	8368	Inside	4327.00	
Recorder	0.00	6753	Inside	4327.00	
Perforations	26.00			4353.00	
Change Over Sub	1.00			4354.00	
Drill Pipe	31.00			4385.00	
Change Over Sub	1.00			4386.00	
Bullnose	4.00			4390.00	64.00 Bottom Packers & Anchor

Total Tool Length: 91.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co., Inc.

23-1s-36w Rawlins,KS

250 N. Water Ste. 300
Wichita, KS 67602

Burk Trust "D" #3-23

Job Ticket: 58322

DST#: 4

ATTN: Saman Sharifaie

Test Start: 2014.06.25 @ 00:52:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 60.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.59 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1100.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
3.00	Mud	0.015

Total Length: 3.00 ft Total Volume: bbl

Num Fluid Samples: 0

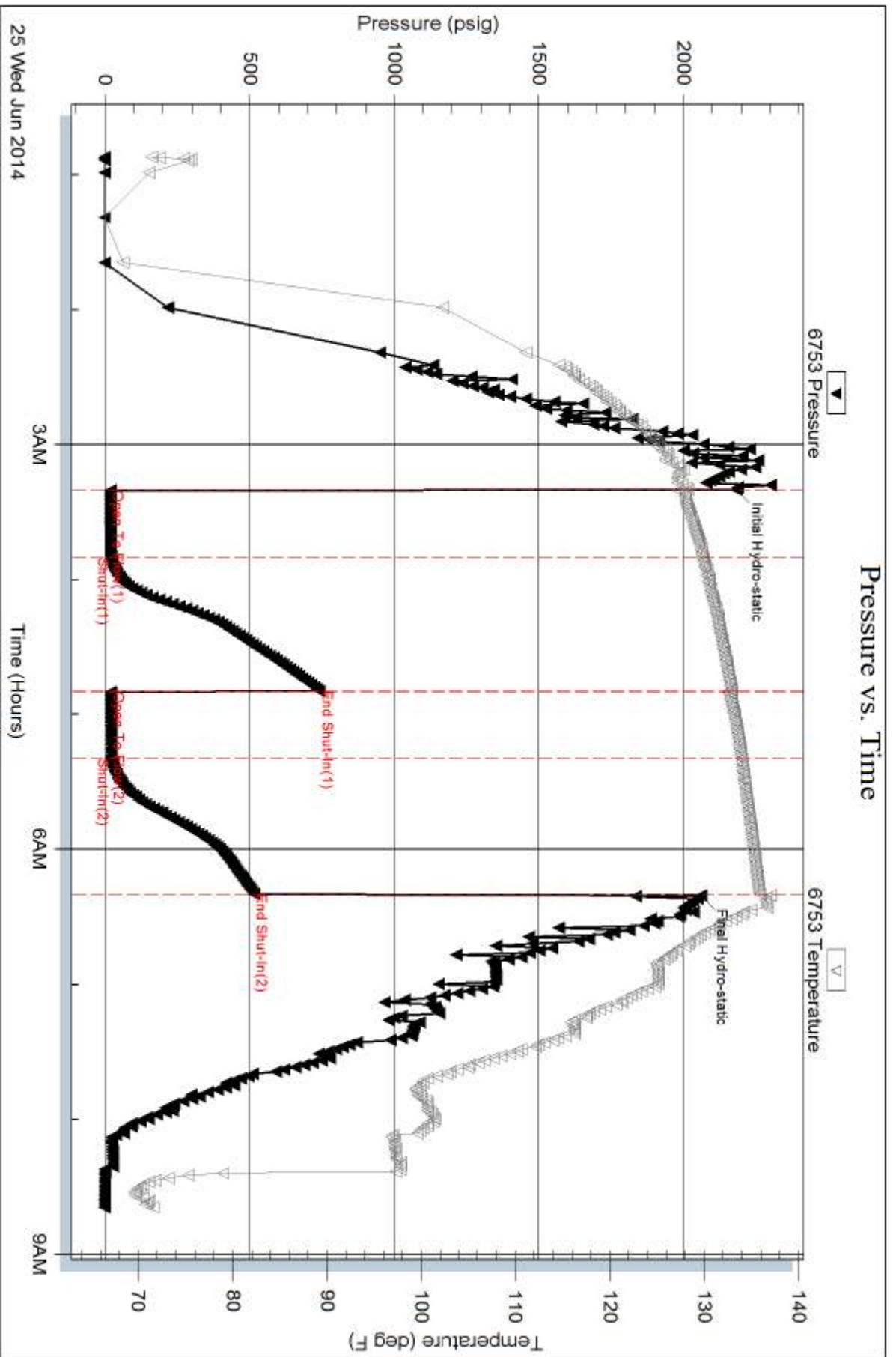
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



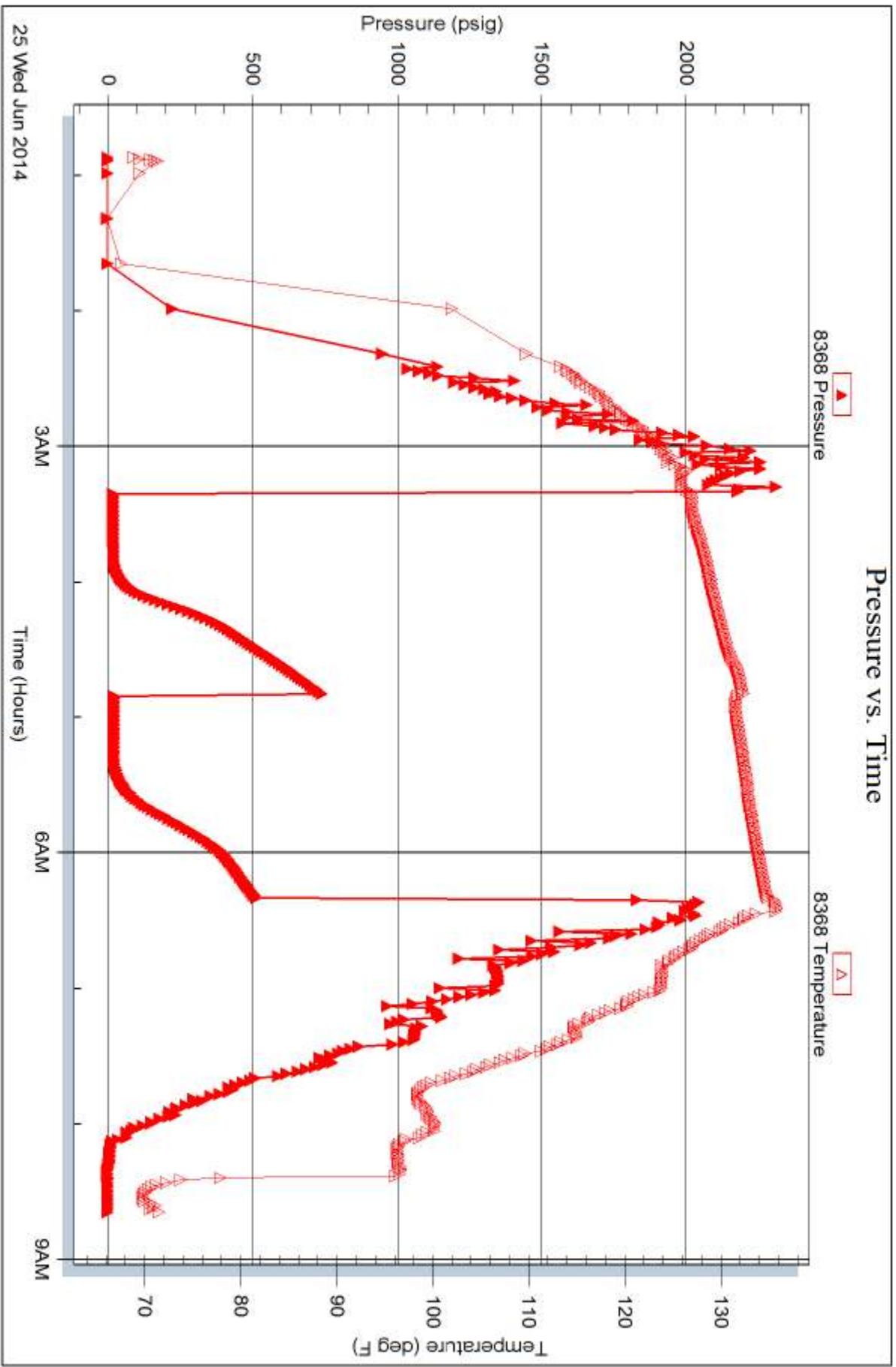
Serial #: 8368

Inside

Murfin Drilling Co., Inc.

Burk Trust "D" #3-23

DST Test Number: 4



Triobite Testing, Inc

Ref. No: 58322

Printed: 2014.06.27 @ 15:27:55



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **58319**

Well Name & No. Buck Trust #10' # 3-23 Test No. 1 Date 6-22-14
 Company Murkin Drilling Co., Inc. Elevation 3226 KB 3215 GL
 Address 250 N. Water Ste 300 Wichita KS 67202
 Co. Rep / Geo. Saman Sharfaie Rig Murkin #2
 Location: Sec. 23 Twp. 1S Rge. 36W Co. Rawlins State KS

Interval Tested 4024 - 4080 Zone Tested Oread
 Anchor Length 56 Drill Pipe Run 3820.82 Mud Wt. 9.0
 Top Packer Depth 4019 Drill Collars Run 203.46 Vis 62
 Bottom Packer Depth 4024 Wt. Pipe Run 0 WL 6.0
 Total Depth 4080 Chlorides 600 ppm System LCM 11 #
 Blow Description IF - WEAK SURFACE BLOW STAYED THROUGHOUT THE OPEN
ISI - No return
FF - No surface blow
FST - No return

Rec	Feet of	%gas	%oil	%water	%mud
<u>2</u>	<u>Mud</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 2 BHT 134°F Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic <u>2063</u>	<input checked="" type="checkbox"/> Test <u>1250</u>	T-On Location <u>1:50am</u>
(B) First Initial Flow <u>13</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>2:24am</u>
(C) First Final Flow <u>16</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>4:27 am</u>
(D) Initial Shut-In <u>199</u>	<input checked="" type="checkbox"/> Circ Sub <u>N/C</u>	T-Pulled <u>7:27am</u>
(E) Second Initial Flow <u>16</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>9:20am</u>
(F) Second Final Flow <u>16</u>	<input checked="" type="checkbox"/> Mileage <u>116 B/T</u> <u>179.80</u>	Comments _____
(G) Final Shut-In <u>158</u>	<input type="checkbox"/> Sampler _____	
(H) Final Hydrostatic <u>2084</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>30</u>	<input type="checkbox"/> Extra Recorder _____	Sub Total <u>0</u>
Final Shut-In <u>60</u>	<input type="checkbox"/> Day Standby _____	Total <u>1754.80</u>
	<input type="checkbox"/> Accessibility _____	MP/DST Disc't _____
	Sub Total <u>1754.80</u>	

Approved By _____ Our Representative [Signature]

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **58320**

Well Name & No. Burk Trust 'D' #3-23 Test No. 2 Date 6-22-14
 Company Murkin Drilling Co., Inc. Elevation 3226 KB 3215 GL
 Address 250 N. Water, Ste 300 Wichita KS 67202
 Co. Rep / Geo. Saman ShariFaie Rig Murkin #2
 Location: Sec. 23 Twp. 1S Rge. 36W Co. Rawlins State KS

Interval Tested 4170-4226 Zone Tested LKC-'B-D'
 Anchor Length 56' Drill Pipe Run 3947.84 Mud Wt. 9.3
 Top Packer Depth 4165 Drill Collars Run 203.46 Vis 55
 Bottom Packer Depth 4170 Wt. Pipe Run 0 WL 6.8
 Total Depth 4226 Chlorides 600 ppm System LCM 10#
 Blow Description IF - Surface blow built to 9"
ISI - No RETURN
FF - SURFACE BUILT TO 9.5"
FST - No RETURN

Rec	Feet of	%gas	%oil	%water	%mud
<u>189'</u>	<u>OCWM</u>	<u>15</u>	<u>20</u>	<u>65</u>	
<u>63'</u>	<u>OCWM</u>	<u>25</u>	<u>15</u>	<u>60</u>	
<u>3'</u>	<u>Free Oil</u>	<u>100</u>			

Rec Total 283 BHT 140 Gravity 42 API RW @ _____ ° F Chlorides _____ ppm

(A) Initial Hydrostatic 2058 Test 1250 T-On Location 10:35am 11:35am
 (B) First Initial Flow 20 Jars 250 T-Started 12:18pm 12:18am
 (C) First Final Flow 90 Safety Joint 75 T-Open 2:41am
 (D) Initial Shut-In 601 Circ Sub n/c T-Pulled 6:41 AM
 (E) Second Initial Flow 97 Hourly Standby _____ T-Out 9:09 AM
 (F) Second Final Flow 134 Mileage 116 B/T 179.80 Comments _____
 (G) Final Shut-In 409 Sampler _____
 (H) Final Hydrostatic 2061 Straddle _____
 Shale Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____

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

Sub Total 1754.80
 Total 1754.80
 MP/DST Disc't _____

Approved By _____ Our Representative [Signature]

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 58321

Well Name & No. Burk Trust 'D' #3-23 Test No. 3 Date 6-23-14
 Company Murfin Drilling Co, Inc Elevation 3226 KB 3215 GL
 Address 250 N. Water, Ste 300 Wichita Ks 67202
 Co. Rep / Geo. Saman Sharif Fata Rig Murfin #2
 Location: Sec. 23 Twp. 1S Rge. 36W Co. Rawlins State Ks

Interval Tested 4238 - 4290 Zone Tested LKC - 'G'
 Anchor Length 52' Drill Pipe Run 4009.86' Mud Wt. 9.2
 Top Packer Depth 4233' Drill Collars Run 203.46 Vis 60
 Bottom Packer Depth 4238' Wt. Pipe Run 0 WL 6.0
 Total Depth 4290 Chlorides 600 ppm System LCM 16#
 Blow Description IF - SURFACE BLOW BUILT TO 8.5"
ISI - NO RETURN
FF - SURFACE BLOW BUILT TO BOTTOM OF BUCKET IN 44 MINUTES
FSI - NO RETURN

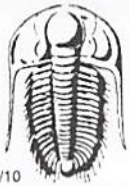
Rec	Feet of	%gas	%oil	%water	%mud
<u>140</u>	<u>Free Oil</u>	<u>100</u>			
<u>63'</u>	<u>OCM</u>	<u>35</u>		<u>65</u>	

Rec Total 203' BHT 137°F Gravity 39@60 API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic <u>2166</u>	<input checked="" type="checkbox"/> Test <u>1250</u>	T-On Location <u>6:45pm</u>
(B) First Initial Flow <u>14</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>6:58pm</u>
(C) First Final Flow <u>55</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>9:16 PM</u>
(D) Initial Shut-In <u>520</u>	<input checked="" type="checkbox"/> Circ Sub <u>N/C</u>	T-Pulled <u>1:16 AM</u>
(E) Second Initial Flow <u>66</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>3:45 am</u>
(F) Second Final Flow <u>97</u>	<input checked="" type="checkbox"/> Mileage <u>116 RTT</u> <u>179.80</u>	Comments _____
(G) Final Shut-In <u>516</u>	<input type="checkbox"/> Sampler _____	
(H) Final Hydrostatic <u>2090</u>	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> Ruined Shale Packer _____
Initial Open <u>9:00 AM</u> <u>30</u>	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Ruined Packer _____
Initial Shut-In <u>9:16 AM</u> <u>60</u>	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Extra Copies _____
Final Flow <u>10:16 AM</u> <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>1754.80</u>
	<input type="checkbox"/> Accessibility _____	MP/DST Disc't _____
	Sub Total <u>1754.80</u>	

Approved By _____ Our Representative [Signature]

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. ~~58323~~ 58322

Well Name & No. Buck Trust 'D' # 3-23 Test No. 4 Date 6-24-14
 Company Murfin Drilling Co., Inc Elevation 3226 KB 3215 GL
 Address 250 W. Water, Ste 300 Wichita KS 67202
 Co. Rep / Geo. Saman Sharif Faei Rig Murfin # 2
 Location: Sec. 23 Twp. 15 Rge. 36 W Co. Rawlins State KS

Interval Tested 4326' - 4390 Zone Tested LKC - J'
 Anchor Length 64' Drill Pipe Run 4104.44 Mud Wt. 8.6
 Top Packer Depth 4321 Drill Collars Run 203.46 Vis 60
 Bottom Packer Depth 4326 Wt. Pipe Run 0 WL 5.6
 Total Depth 4390 Chlorides 1100 ppm System LCM 28#

Blow Description IF - surface blow started with a weak surface then died in 20
ISI - No Return
FF - No surface blow
FST - No Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>3</u>	<u>Mud</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 3 BHT 135°F Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 2181 Test 1250 T-On Location 11:50pm
 (B) First Initial Flow 17 Jars 250 T-Started 12:52am
 (C) First Final Flow 20 Safety Joint 75 T-Open 3:20am
 (D) Initial Shut-In 740 Circ Sub N/C T-Pulled 6:20am
 (E) Second Initial Flow 20 Hourly Standby _____ T-Out 8:40am
 (F) Second Final Flow 22 Mileage 116 R/T 179.80 Comments picked up to after test, but not released
 (G) Final Shut-In 514 Sampler _____
 (H) Final Hydrostatic 2060 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Initial Open 30 Extra Recorder _____ Sub Total 0
 Initial Shut-In 60 Day Standby _____ Total 1754.80
 Final Flow 30 Accessibility _____ MP/DST Disc't _____
 Final Shut-In 60 Sub Total 1754.80

Approved By _____ Our Representative Blake [Signature]

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Saman Sharifaie

Petroleum Geologist

GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

COMPANY **Martin Drilling Co., Inc.**
LEASE **Burk Trust "D" #3-23**

FIELD **East Fork**
LOCATION **1320 FSL & 330' FWL**
SEC **23** TWP **S** RGE **36W**
COUNTY **Randolph** STATE **Kansas**
CONTRACTOR **Martin Drilling #2**

RTPD **06/8/14** COMP **06/27/14**
SPUD **4:52:5** LTD **4:52:6**
MUD UP **3:15'** TYPE MUD **Chemical**

SAMPLES SAVED FROM **3:20'** TO **RTD**
DRILLING TIME KEPT FROM **3:50'** TO **RTD**
SAMPLES EXAMINED FROM **3:50'** TO **RTD**

GEOLOGICAL SUPERVISION FROM **3:20'**
REFERENCE WELL MDICI - Burk Trust "D" #1-23

FORMATION **Sample Tops** **E-log Tops** **Strat Pos.**

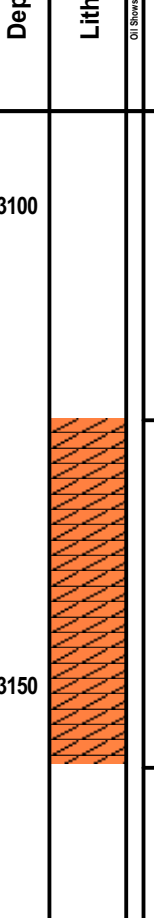
Amhydrite	3120 (+106)	3122 (+104)	+7
Base Amhydrite	3158 (+68)	3258 (+68)	+3
Neva	3610 (-384)	3610 (-384)	+7
Tridake	3722 (-496)	3720 (-496)	+5
Tridake	3728 (-496)	3934 (-708)	+8
Ordred	4050 (-824)	4057 (-831)	+5
Lansing	4154 (-928)	4157 (-927)	+3
Stark	4374 (-1148)	4372 (-1146)	+6
BKC	4424 (-1198)	4422 (-1196)	+4

ELEVATIONS
KB **3226'**

DF _____
GL **3215'**
Measurements Are All From Kelly Bushing

CASING
CONDUCTOR _____
SURFACE **8-5/8"** at **22.5'**
PRODUCTION **5-1/2"** at **4518'**

ELECTRICAL SURVEYS
CND; DIL; MEL; SANC
Pioneer Wellfile



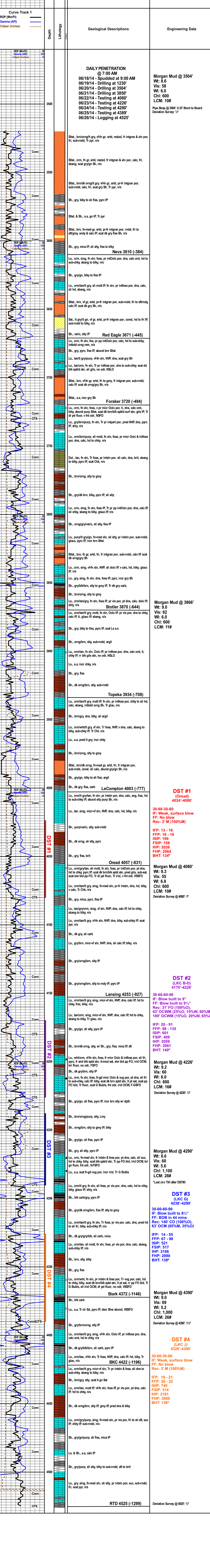
REMARKS Due to fair shows of oil in multiple potential pay zones and positive DST results, it is recommended and agreed upon by all parties that production casing be set to further evaluate this well.

Respectfully Submitted,

API #15-153-21024

Saman Sharifaie
Petroleum Geologist

*Tops have been adjusted to electric logs



Engineering Data

Morgan Mud @ 3504'
Wt: 8.6
Vis: 58
Chl: 6.0
LCM: 10#
Pipe Strap @ 3504': 0.33' Short to Board
Deviation Survey: 1/2"

Morgan Mud @ 3866'
Wt: 9.0
Vis: 62
Chl: 6.0
LCM: 11#

Morgan Mud @ 4080'
Wt: 9.2
Vis: 55
Chl: 6.0
LCM: 10#
Deviation Survey @ 4080': 1"

Morgan Mud @ 4226'
Wt: 9.2
Vis: 60
Chl: 6.0
LCM: 16#
Deviation Survey @ 4226': 1/2"

Morgan Mud @ 4290'
Wt: 8.6
Vis: 60
Chl: 5.6
LCM: 28#
*Lost circ THH after DST#3

Morgan Mud @ 4390'
Wt: 9.0
Vis: 69
Chl: 5.2
LCM: 26#
Deviation Survey @ 4390': 1/2"

Morgan Mud @ 4390'
Wt: 9.0
Vis: 69
Chl: 5.2
LCM: 26#
Deviation Survey @ 4390': 1/2"

Morgan Mud @ 4422'
Wt: 9.2
Vis: 60
Chl: 1,100
LCM: 28#

Morgan Mud @ 4422'
Wt: 9.2
Vis: 60
Chl: 1,100
LCM: 28#

Morgan Mud @ 4422'
Wt: 9.2
Vis: 60
Chl: 1,100
LCM: 28#

Morgan Mud @ 4422'
Wt: 9.2
Vis: 60
Chl: 1,100
LCM: 28#

Morgan Mud @ 4422'
Wt: 9.2
Vis: 60
Chl: 1,100
LCM: 28#

Morgan Mud @ 4422'
Wt: 9.2
Vis: 60
Chl: 1,100
LCM: 28#

Morgan Mud @ 4422'
Wt: 9.2
Vis: 60
Chl: 1,100
LCM: 28#

Morgan Mud @ 4422'
Wt: 9.2
Vis: 60
Chl: 1,100
LCM: 28#

Morgan Mud @ 4422'
Wt: 9.2
Vis: 60
Chl: 1,100
LCM: 28#