

Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1241376
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: _____

1241376

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
----------------	-------	---------	------------	---

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	Burk Trust 'D' 5-23
Doc ID	1241376

All Electric Logs Run

DIL
DUCP
MEL
BHCS



PO Box 93999
Southlake, TX 76092

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

cccc
Prod-mg

INVOICE

Invoice Number: 146632
Invoice Date: Oct 21, 2014
Page: 1

Federal Tax I.D.#: 20-8651475

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

Customer ID	Field Ticket #	Payment Terms	
Murfin	64332	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-01	Oakley	Oct 21, 2014	11/20/14

Quantity	Item	Description	Unit Price	Amount
1.00	WELL NAME	Burk Trust D #5-23		
220.00	CEMENT MATERIALS	Class A Common	17.90	3,938.00
620.00	CEMENT MATERIALS	Chloride	1.10	682.00
231.00	CEMENT SERVICE	Cubic Feet Charge	2.48	572.88
852.00	CEMENT SERVICE	Ton Mileage Charge	2.75	2,343.00
1.00	CEMENT SERVICE	Surface	1,512.25	1,512.25
80.00	CEMENT SERVICE	Pump Truck Mileage	7.70	616.00
1.00	CEMENT SERVICE	Swedge Manifold Rental	275.00	275.00
80.00	CEMENT SERVICE	Light Vehicle Mileage	4.40	352.00
1.00	CEMENT SUPERVISOR	LaRene Wentz		
1.00	EQUIPMENT OPERATOR	Wayne McGhghy		
1.00	OPERATOR ASSISTANT	Wayne Messalle		
1.00	OPERATOR ASSISTANT	Shawn Tatro		

Subtotal	10,291.13
Sales Tax	364.98
Total Invoice Amount	10,656.11
Payment/Credit Applied	
TOTAL	10,656.11

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

\$ 3,601.89 *ok*

ONLY IF PAID ON OR BEFORE
Nov 20, 2014

- 3601.89

OK
RR
7054.22



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



Invoice

DATE	INVOICE #
10/29/2014	26955

BILL TO
Murfin Drilling Co Inc PO Box 661 Colby, KS 67701-0661

USED FOR IC 103 • Acidizing
 • Cement
 APPROVED [Signature] • Tool Rental
 FH

TERMS	Well No.	Lease	County	Contractor	Well Type	Well Category	Job Purpose	Operator
Net 30	#5-23	Burke Trust D	Rawlins	Company Tools	Oil	Development	Cement Top To ...	Don
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 - 4618 Feet				1	Job	2,000.00	2,000.00
221	Liquid KCL (Clayfix)				4	Gallon(s)	25.00	100.00T
281	Mud Flush				500	Gallon(s)	1.25	625.00T
290	D-Air				5	Gallon(s)	42.00	210.00T
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
409-5	5 1/2" Turbolizer				15	Each	90.00	1,350.00T
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				10	Sack(s)	35.00	350.00T
285	CFR-1				141	Lb(s)	4.50	634.50T
330	Swift Multi-Density Standard (MIDCON II)				300	Sacks	18.50	5,550.00T
276	Flocele				150	Lb(s)	2.50	375.00T
581D	Service Charge Cement				500	Sacks	2.00	1,000.00
583D	Drayage				3,814.43	Ton Miles	1.00	3,814.43
	Subtotal							22,683.93
	Sales Tax Rawlins County						7.90%	1,182.59
We Appreciate Your Business!						Total	\$23,866.52	



Services, Inc.

CHARGE TO: Musfin Dtg. Co
 ADDRESS: _____
 CITY, STATE, ZIP CODE: _____

TICKET 26955

PAGE 1 OF 2

SERVICE LOCATIONS
 1. Hays, KS WELL/PROJECT NO. _____ LEASE Burke Trust COUNTY/PARISH Rawlins STATE KS DATE 10-29-14 OWNER _____
 2. Ness, KS TICKET TYPE D-5-23 CONTRACTOR _____ RIG NAME NO. #2 SHIPPED VIA TR DELIVERED TO N/Brackley, KS ORDER NO. _____
 3. WELL TYPE Oil WELL CATEGORY in field JOB PURPOSE Cement Linstriping WELL LOCATION _____
 4. REFERRAL LOCATION _____ INVOICE INSTRUCTIONS Top To Bottom

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.	UM	QTY.	UM	UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
575					MILEAGE #113	150	mi			600	90000
579					Pump Charge - cur Top To Bottom	100		1618	ft	20000	200000
291					Liquid Kcl	4	gal			8500	10000
281					Mixed Plush	500	gal			195	62500
290					D-Air	5	gal			4800	21000
403					Cement Baskets	3	ea			3000	9000
406					Lotho Drain Plug & Baffle	1	ea			5 1/2 in	29500
407					Esgent Elast Spine w/ Auto-Rol	1	ea			5 1/2 in	37500
409					Turbolizers	15	ea			5 1/2 in	9000
413					Rot's & Ball Screens	20	ea			5 ft	9000
419					Rotating Head Rental	1	ea			5 1/2 in	20000

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 Allen Robinson DATE SIGNED 10-29-14 TIME SIGNED 2:00 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
 TOTAL 23,866.52

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



Swanton, Inc

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

TICKET CONTINUATION

TICKET No. 26855

CUSTOMER
Murphy Ditz Co

WELL
D-5-23 Burke Trust

DATE
10-29-14

PAGE 2 OF 2

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			TIME	DESCRIPTION	WELL				DATE	UNIT PRICE	AMOUNT
		LOC	ACCT	TR			QTY	U/M	QTY	U/M			
325						Standard cut	EA-2	200	SKS	18200	lbs	14.50	2900.00
276						Flocele	1/4#SKS	50	lbs			2.50	125.00
283						Salt		1000	lbs			.30	300.00
284						Calsoed		940	lbs	10	SKS	35.00	3500.00
285						CER-1		191	lbs			4.56	634.50
330						SND Cement		300	SKS	29778	lbs	18.50	5550.00
276						Flocele	1/2#SKS	150	lbs			2.50	375.00
581													
583													
						SERVICE CHARGE							
						MILEAGE CHARGE							
						TOTAL WEIGHT							
						LOADED MILES							
						CUBIC FEET							
						TON MILES							
						Remout							
						500 SKS							
						200							
						100							
						3814.43							
						14948.93							

CONTINUATION TOTAL

14948.93

JOB LOG

SWIFT Services, Inc.

DATE 10-29-14 PAGE NO. 1

CUSTOMER Martin Drilling Co. WELL NO. D 5-23 LEASE Burke Trust JOB TYPE Cement Longstring TICKET NO. 26955

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		TD 4621'	DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING		
	2100					155 [#] /ft	5 1/2		DN Location Float Equip
	2245								FIN L.D.D.P. - Change over
	2400								Start 5 1/2 casing to 4618'
									Insert Float Shoe w/ Filt-up
									L.D. Baffle - SJ-22' @ 4596' 4596' 109 1/2
									Cent-Turbo's - 1, 2, 3, 5 Thru 13 - 15-32-66
									Cut Baskets 16, 33, 61,
	0120/0150								Circulate on #60 - 30 min
									Drop fill up ball 4 3/4 out
	0225								Fin running casing
	0230								Start cir casing - Rotate
	0330								Fin cir
			7 5						Plug RH-30 sks SMD
									MH - 20 sks SMD
		5	12				350		Pump 500 gal Mucal Flush
		6	20				400		Pump 20 BBI KCL Flush
			1600						Start 250 sks SMD cut
			50						Start 200 sks FA-2 cut
									Finish cut
									Wash out pump & lines
									Drop L.D. Plug
		9					400		Start Displ - 1st Tank KCL w/te
		9	50				500		Caught lift press
		8 7	90				800		slow rate cut circulate 35 sks
			95				1000		slow rate
		6	100				1300		last cir press
		6	109				1800		Plug Down - Hold Release & Hold.
	0500	0	109 1/2						Job Complete
									Wash up & Rackup Trk
									Thanks Ken, Jon, Steve Rob & Isaac

Burk Trust 'D' #5-23
 Daily Drilling Report
 Page Two

10/29/14 RTD: 4621'. Cut: 146'. DT: None. CT: 14¼ hrs. Dev.: None. **DST #4 4382-4475' (LKC J):** 30-60-60-90. IF: ½" blw built to BOB in 28mins. FF: surf blw started @ 2mins, built to BOB in 45mins. Rec.: 189'OCM (90%M, 10%O), 126'OCWM (10%O, 40%W, 50%M), 120'OSMW (20%M, 80%W (oil spts)). HP: 2224-1978. FP: 68/141, 145/212. SIP: 480-467. BHT: 133°. HC @ 6:15AM 10/29.CF/Log

10/30/14 RTD: 4621'. CT: 24hrs. Pioneer logged 12:45PM – 4:15PM 10/29. LTD: 4623'. Ran 108jts of 5½" prod csg, set @ 4619'. Swift cmt w/450sxs (250SMD, 200EA2). PD @ 5:00AM 10/30. 30sxs RH, 20sxs MH. Circ 35sxs.

10/31/14 RTD: 4621'. CT: 3hrs. RR @ 9:00AM 10/30/14. FINAL REPORT

MDCI Burk Trust 'D' #5-23 330' FSL 2310' FWL Sec. 23-T1S-R36W 3318' KB							MDCI Burk Trust 'D' #4-23 330' FSL 1440' FWL Sec. 23-T1S-R36W 3287' KB	
Formation	Sample top	Datum	Ref	Log Top	Datum	Ref	Log Top	Datum
Anhydrite	3214	+104	+2	3215	+103	+1	3185	+102
B/Anhydrite	3247	+71	+4	3249	+69	+2	3220	+67
Neva	3704	-386	+1	3705	-387	Flat	3674	-387
Red Eagle	3770	-452	-4	3768	-450	-2	3735	-448
Foraker	3819	-501	-4	3816	-498	-1	3784	-497
Topeka	4030	-712	-1	4028	-710	+1	3998	-711
Oread	4143	-825	-1	4144	-826	-2	4111	-824
Lansing	4249	-931	-1	4249	-931	-1	4217	-930
Stark	4472	-1154	-3	4472	-1154	-3	4438	-1151
BKC	4521	-1203	-3	4517	-1199	+1	4487	-1200
RTD	4621	-1303					4580	-1293
LTD				4623	-1305		4580	



DRILL STEM TEST REPORT

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

250 N Water STE #300
Wichita, KS 67202

ATTN: Robert Hendrix

Burk Trust D #5-23

23-1s-36w Rawlins,KS

Start Date: 2014.10.25 @ 09:53:00

End Date: 2014.10.25 @ 18:13:00

Job Ticket #: 60195 DST #: 1

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.10.30 @ 16:50:20



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Co., Inc.

23-1s-36w Rawlins,KS

250 N Water STE #300
Wichita, KS 67202

Burk Trust D #5-23

Job Ticket: 60195

DST#: 1

ATTN: Robert Hendrix

Test Start: 2014.10.25 @ 09:53:00

GENERAL INFORMATION:

Formation: **Oread**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:12:30

Time Test Ended: 18:13:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Kevin Mack

Unit No: 66

Interval: 4111.00 ft (KB) To 4157.00 ft (KB) (TVD)

Reference Elevations: 3318.00 ft (KB)

Total Depth: 4157.00 ft (KB) (TVD)

3307.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

Serial #: 8874

Inside

Press@RunDepth: 31.91 psig @ 4112.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.10.25

End Date:

2014.10.25

Last Calib.:

2014.10.25

Start Time: 09:54:00

End Time:

18:13:00

Time On Btm:

2014.10.25 @ 12:11:30

Time Off Btm:

2014.10.25 @ 16:17:00

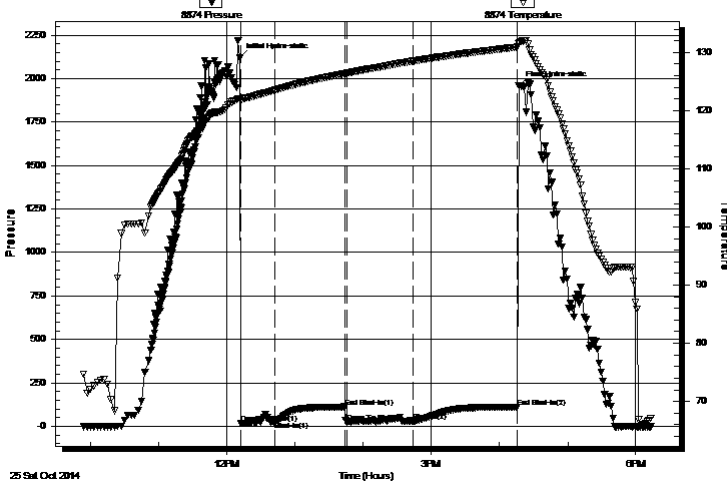
TEST COMMENT: 30 - IF- 1/4" Blow built to 3/4"

60 - IS- No Return

60 - FF- No Blow

90 - FS- No Return

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2118.81	122.05	Initial Hydro-static
1	17.05	121.74	Open To Flow (1)
31	30.32	123.50	Shut-In(1)
92	111.88	126.32	End Shut-In(1)
94	23.09	126.37	Open To Flow (2)
152	31.91	128.49	Shut-In(2)
244	111.75	130.89	End Shut-In(2)
246	1960.45	131.53	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	OSM 100M (oil spots)	0.10

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 67202

Burk Trust D #5-23

Job Ticket: 60195

DST#: 1

ATTN: Robert Hendrix

Test Start: 2014.10.25 @ 09:53:00

Tool Information

Drill Pipe:	Length: 3907.00 ft	Diameter: 3.80 inches	Volume: 54.80 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: 206.00 ft	Diameter: 2.25 inches	Volume: 1.01 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 55.81 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 62000.00 lb
Depth to Top Packer:	4111.00 ft			Final 62000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	46.00 ft			
Tool Length:	74.00 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			4084.00	
Shut In Tool	5.00			4089.00	
Hydraulic tool	5.00			4094.00	
Jars	5.00			4099.00	
Safety Joint	3.00			4102.00	
Packer	5.00			4107.00	28.00 Bottom Of Top Packer
Packer	4.00			4111.00	
Stubb	1.00			4112.00	
Recorder	0.00	8653	Outside	4112.00	
Recorder	0.00	8874	Inside	4112.00	
Perforations	6.00			4118.00	
Change Over Sub	1.00			4119.00	
Drill Pipe	32.00			4151.00	
Change Over Sub	1.00			4152.00	
Bullnose	5.00			4157.00	46.00 Bottom Packers & Anchor

Total Tool Length: 74.00



**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 67202

Burk Trust D #5-23

Job Ticket: 60195

DST#: 1

ATTN: Robert Hendrix

Test Start: 2014.10.25 @ 09:53:00

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: 65.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.39 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 700.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
20.00	OSM 100M (oil spots)	0.098

Total Length: 20.00 ft Total Volume: 0.098 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

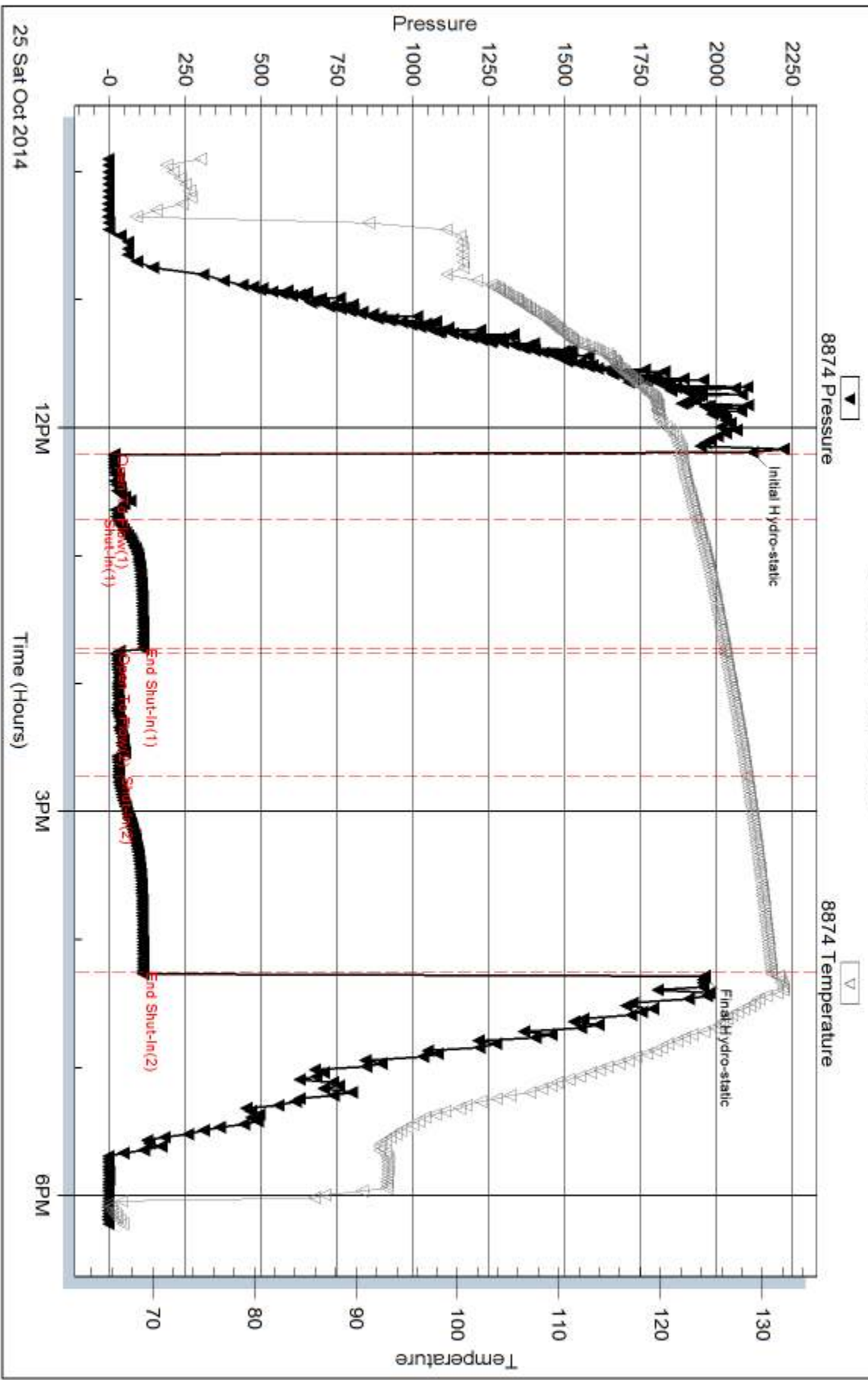
Serial #:

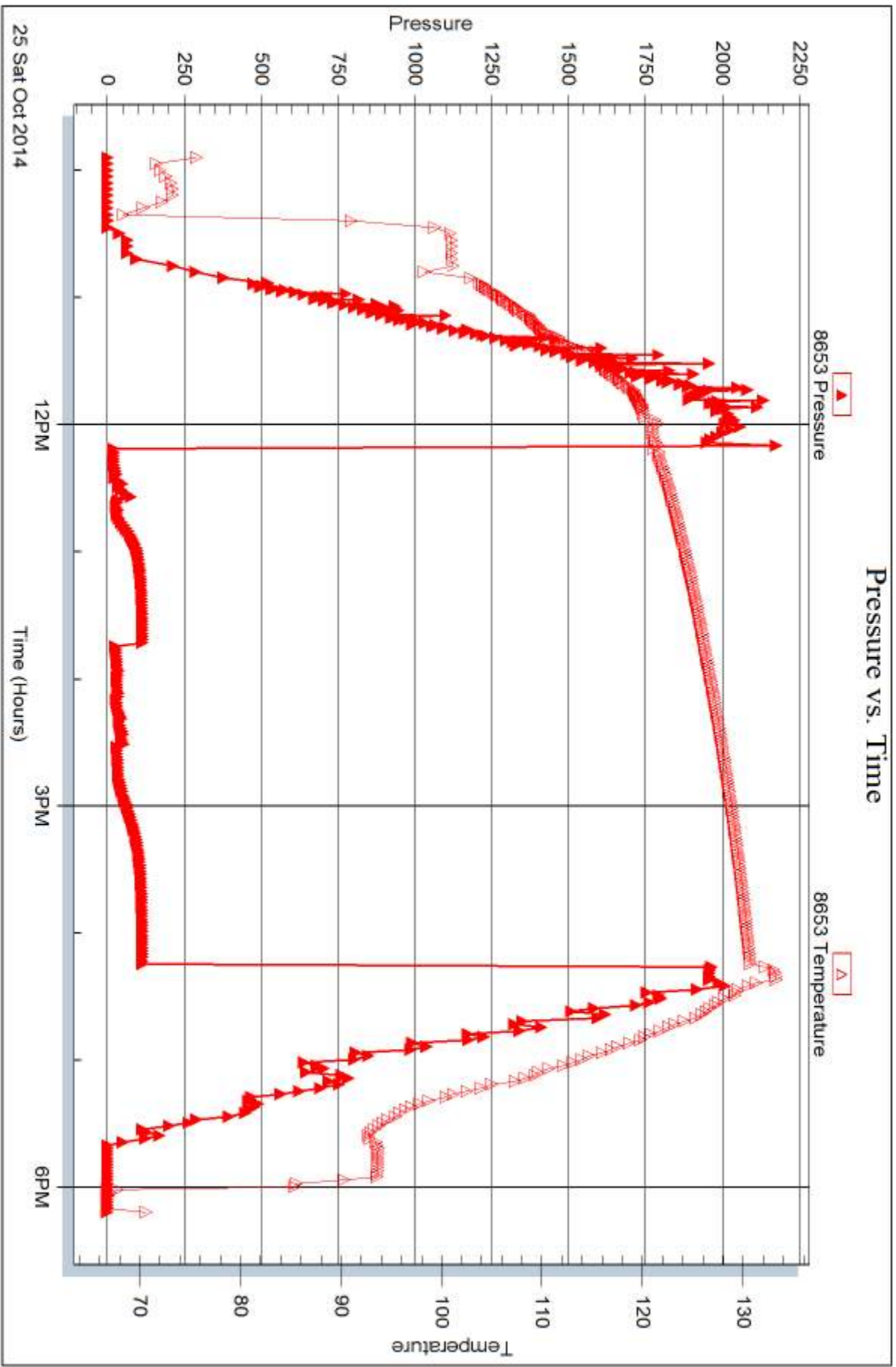
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time







DRILL STEM TEST REPORT

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

250 N Water STE #300
Wichita, KS 67202

ATTN: Robert Hendrix

Burk Trust D #5-23

23-1s-36w Rawlins,KS

Start Date: 2014.10.26 @ 14:12:00

End Date: 2014.10.26 @ 22:59:30

Job Ticket #: 60196 DST #: 2

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.10.30 @ 16:49:55



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Murfin Drilling Co., Inc.

23-1s-36w Rawlins, KS

250 N Water STE #300
Wichita, KS 67202

Burk Trust D #5-23

Job Ticket: 60196

DST#: 2

ATTN: Robert Hendrix

Test Start: 2014.10.26 @ 14:12:00

GENERAL INFORMATION:

Formation: **LKC "D"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:29:00

Time Test Ended: 22:59:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Kevin Mack

Unit No: 66

Interval: 4266.00 ft (KB) To 4324.00 ft (KB) (TVD)

Reference Elevations: 3318.00 ft (KB)

Total Depth: 4324.00 ft (KB) (TVD)

3307.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

Serial #: 8874

Inside

Press@RunDepth: 271.17 psig @ 4267.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.10.26

End Date: 2014.10.26

Last Calib.: 2014.10.26

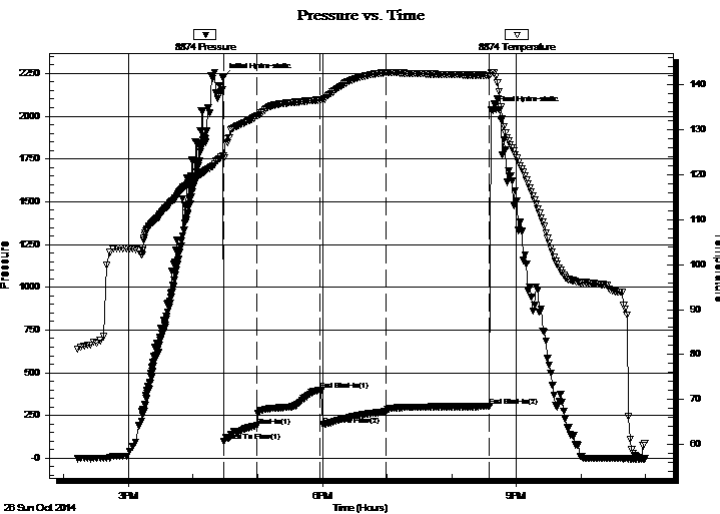
Start Time: 14:13:00

End Time: 22:59:30

Time On Btm: 2014.10.26 @ 16:28:00

Time Off Btm: 2014.10.26 @ 20:36:30

TEST COMMENT: 30 - IF- BoB in 10 min.
60 - IS- Surface Return started at 3 min. Built to 3 3/4"
60 - FF- BoB in 19 min.
90 - FS- Surface Return started at 1 min. Built to 8 3/4"



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2224.51	124.12	Initial Hydro-static
1	100.23	123.80	Open To Flow (1)
31	189.36	133.07	Shut-In(1)
90	400.01	136.64	End Shut-In(1)
93	195.77	136.64	Open To Flow (2)
151	271.17	142.71	Shut-In(2)
247	302.83	142.12	End Shut-In(2)
249	2034.74	142.61	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
180.00	OCMW 5o 75W 20M	0.89
126.00	OCMW 10o 60W 30M	1.53
126.00	GWCMO 20G 30o 20W 30M	1.77
176.00	CGO 30G 70o	2.47
0.00	504' GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co., Inc.

23-1s-36w Rawlins,KS

250 N Water STE #300
Wichita, KS 67202

Burk Trust D #5-23

Job Ticket: 60196

DST#: 2

ATTN: Robert Hendrix

Test Start: 2014.10.26 @ 14:12:00

Tool Information

Drill Pipe:	Length: 4062.00 ft	Diameter: 3.80 inches	Volume: 56.98 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: 206.00 ft	Diameter: 2.25 inches	Volume: 1.01 bbl	Weight to Pull Loose: 74000.00 lb
			<u>Total Volume: 57.99 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 64000.00 lb
Depth to Top Packer:	4266.00 ft			Final 68000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	58.00 ft			
Tool Length:	86.00 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			4239.00	
Shut In Tool	5.00			4244.00	
Hydraulic tool	5.00			4249.00	
Jars	5.00			4254.00	
Safety Joint	3.00			4257.00	
Packer	5.00			4262.00	28.00 Bottom Of Top Packer
Packer	4.00			4266.00	
Stubb	1.00			4267.00	
Recorder	0.00	8653	Outside	4267.00	
Recorder	0.00	8874	Inside	4267.00	
Perforations	18.00			4285.00	
Change Over Sub	1.00			4286.00	
Drill Pipe	32.00			4318.00	
Change Over Sub	1.00			4319.00	
Bullnose	5.00			4324.00	58.00 Bottom Packers & Anchor

Total Tool Length: 86.00



**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 67202

Burk Trust D #5-23

Job Ticket: 60196

DST#: 2

ATTN: Robert Hendrix

Test Start: 2014.10.26 @ 14:12:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

22 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

57000 ppm

Viscosity: 64.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.19 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 700.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
180.00	OCMW 5o 75W 20M	0.885
126.00	OCMW 10o 60W 30M	1.531
126.00	GWCMO 20G 30o 20W 30M	1.767
176.00	CGO 30G 70o	2.469
0.00	504' GIP	0.000

Total Length: 608.00 ft Total Volume: 6.652 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

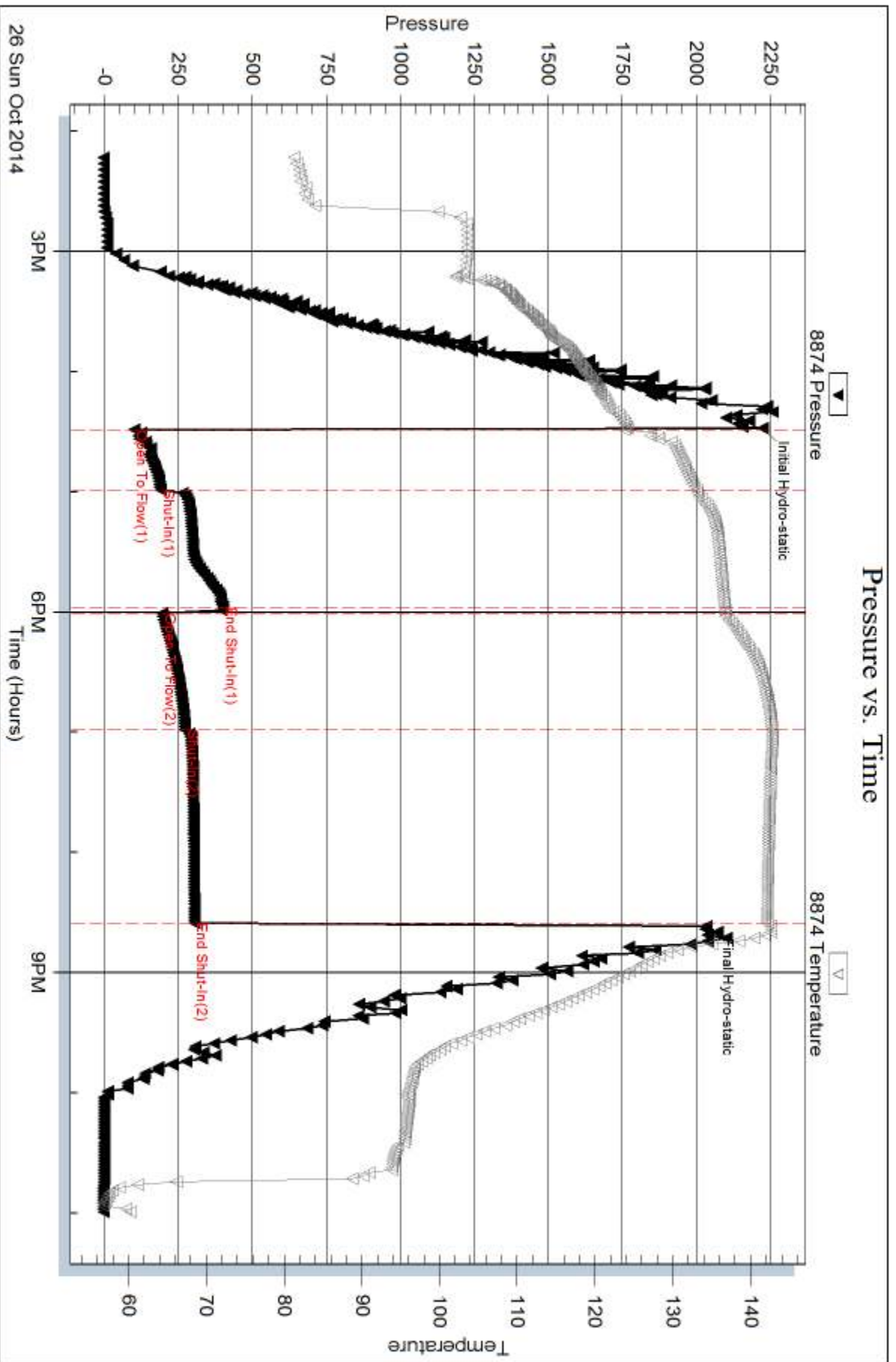
Laboratory Name:

Laboratory Location:

Recovery Comments: Oil API 24 @ 80 deg = 22 cor.

RW .16 @ 63 = 57000ppm

Pressure vs. Time

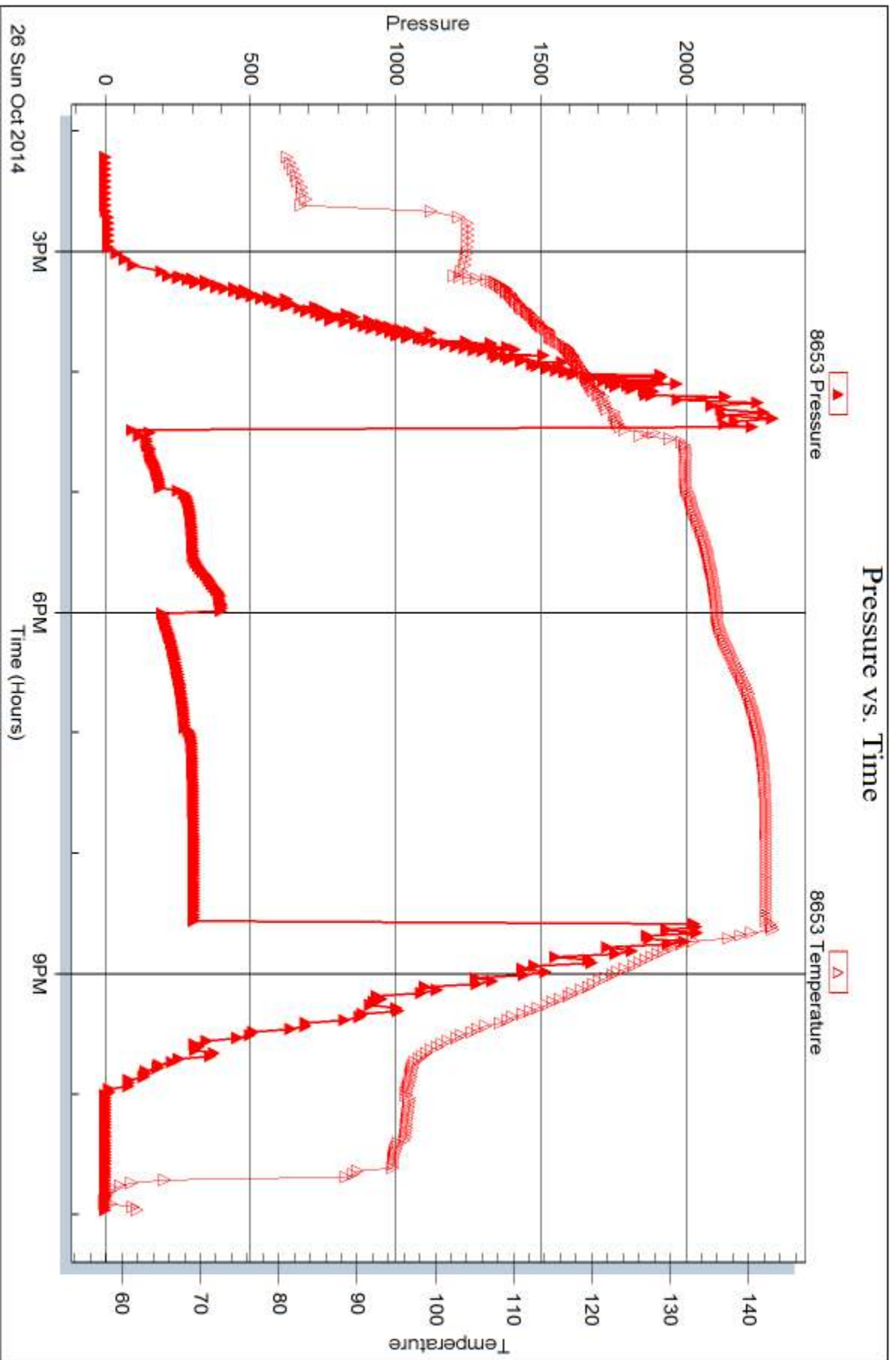


Serial #: 8653

Outside Murfin Drilling Co., Inc.

Burk Trust D#5-23

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 60196

Printed: 2014, 10:30 @ 16:49:56



DRILL STEM TEST REPORT

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

250 N Water STE #300
Wichita, KS 67202

ATTN: Robert Hendrix

Burk Trust D #5-23

23-1s-36w Rawlins,KS

Start Date: 2014.10.27 @ 09:45:00

End Date: 2014.10.27 @ 17:50:30

Job Ticket #: 60197 DST #: 3

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.10.30 @ 16:49:35



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Co., Inc.

23-1s-36w Rawlins,KS

250 N Water STE #300
Wichita, KS 67202

Burk Trust D #5-23

Job Ticket: 60197

DST#: 3

ATTN: Robert Hendrix

Test Start: 2014.10.27 @ 09:45:00

GENERAL INFORMATION:

Formation: **LKC "G"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:56:30

Time Test Ended: 17:50:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Kevin Mack

Unit No: 66

Interval: 4336.00 ft (KB) To 4390.00 ft (KB) (TVD)

Reference Elevations: 3318.00 ft (KB)

Total Depth: 4390.00 ft (KB) (TVD)

3307.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

Serial #: 8653 Outside

Press@RunDepth: 83.21 psig @ 4337.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.10.27 End Date: 2014.10.27

Last Calib.: 2014.10.27

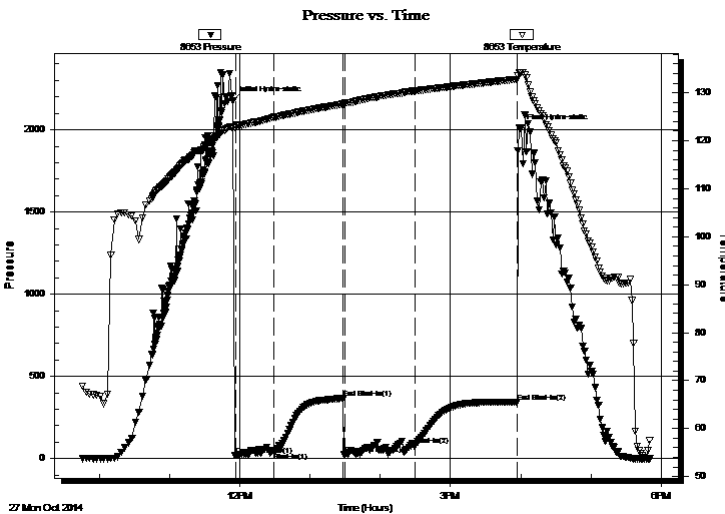
Start Time: 09:46:00 End Time: 17:50:30

Time On Btm: 2014.10.27 @ 11:54:30

Time Off Btm: 2014.10.27 @ 15:59:30

TEST COMMENT: 30 - IF- 1/4" Blow built to 1/2", hen died back to Surface Blow
60 - ISI- No Return
60 - FF- No Blow
90 - FS- No Return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2179.22	122.88	Initial Hydro-static
2	21.28	123.04	Open To Flow (1)
35	41.10	124.89	Shut-In(1)
94	367.91	127.67	End Shut-In(1)
95	26.90	127.79	Open To Flow (2)
155	83.21	130.38	Shut-In(2)
243	344.39	132.82	End Shut-In(2)
245	2005.04	134.17	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	OSM 100M (oil spots)	0.05

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 67202

Burk Trust D #5-23

Job Ticket: 60197

DST#: 3

ATTN: Robert Hendrix

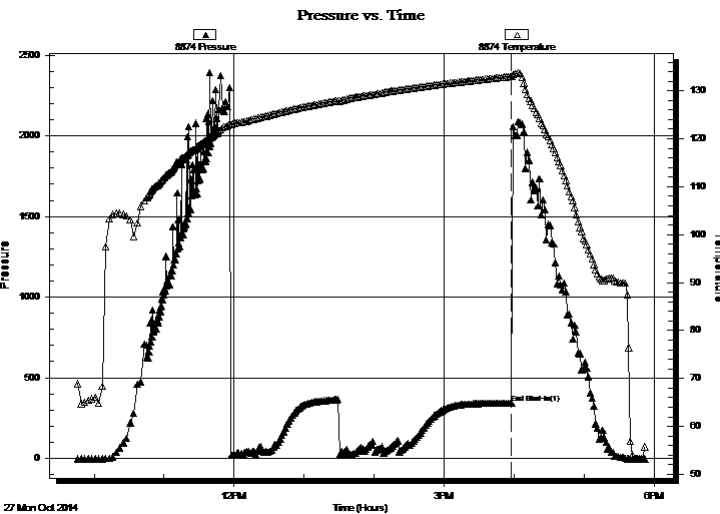
Test Start: 2014.10.27 @ 09:45:00

GENERAL INFORMATION:

Formation: **LKC "G"**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 11:56:30 Tester: Kevin Mack
 Time Test Ended: 17:50:30 Unit No: 66
 Interval: **4336.00 ft (KB) To 4390.00 ft (KB) (TVD)** Reference Elevations: 3318.00 ft (KB)
 Total Depth: 4390.00 ft (KB) (TVD) 3307.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 11.00 ft

Serial #: 8874 Inside
 Press@RunDepth: 341.57 psig @ 4337.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.10.27 End Date: 2014.10.27 Last Calib.: 2014.10.27
 Start Time: 09:46:00 End Time: 17:52:00 Time On Btm:
 Time Off Btm:

TEST COMMENT: 30 - IF- 1/4" Blow built to 1/2", hen died back to Surface Blow
 60 - ISI- No Return
 60 - FF- No Blow
 90 - FS- No Return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	341.57	132.99	End Shut-In(1)

Recovery

Length (ft)	Description	Volume (bbl)
10.00	OSM 100M (oil spots)	0.05

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 67202

Burk Trust D #5-23

Job Ticket: 60197

DST#: 3

ATTN: Robert Hendrix

Test Start: 2014.10.27 @ 09:45:00

Tool Information

Drill Pipe:	Length: 4130.00 ft	Diameter: 3.80 inches	Volume: 57.93 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: 206.00 ft	Diameter: 2.25 inches	Volume: 1.01 bbl	Weight to Pull Loose: 68000.00 lb
			<u>Total Volume: 58.94 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	28.00 ft			String Weight: Initial 64000.00 lb
Depth to Top Packer:	4336.00 ft			Final 64000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	54.00 ft			
Tool Length:	82.00 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			4309.00	
Shut In Tool	5.00			4314.00	
Hydraulic tool	5.00			4319.00	
Jars	5.00			4324.00	
Safety Joint	3.00			4327.00	
Packer	5.00			4332.00	28.00 Bottom Of Top Packer
Packer	4.00			4336.00	
Stubb	1.00			4337.00	
Recorder	0.00	8653	Outside	4337.00	
Recorder	0.00	8874	Inside	4337.00	
Perforations	15.00			4352.00	
Change Over Sub	1.00			4353.00	
Drill Pipe	31.00			4384.00	
Change Over Sub	1.00			4385.00	
Bullnose	5.00			4390.00	54.00 Bottom Packers & Anchor

Total Tool Length: 82.00



**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 67202

Burk Trust D #5-23

Job Ticket: 60197

DST#: 3

ATTN: Robert Hendrix

Test Start: 2014.10.27 @ 09:45:00

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:

bbl

Water Loss: 7.19 in³

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
10.00	OSM 100M (oil spots)	0.049

Total Length: 10.00 ft Total Volume: 0.049 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

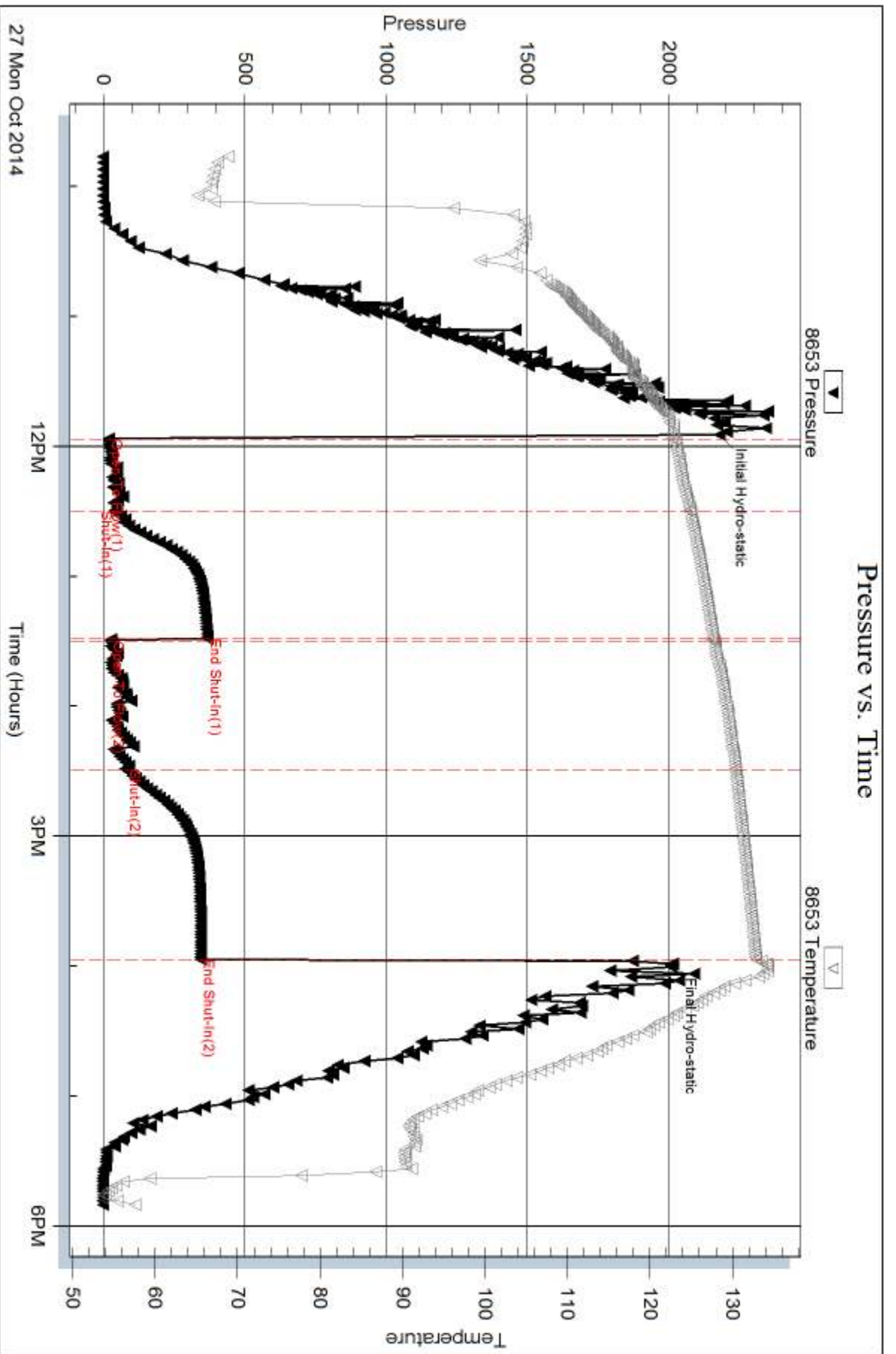
Recovery Comments:

Serial #: 8653

Outside Murfin Drilling Co., Inc.

Burk Trust D#5-23

DST Test Number: 3



Triobite Testing, Inc

Ref. No: 60197

Printed: 2014, 10:30 @ 16:49:36

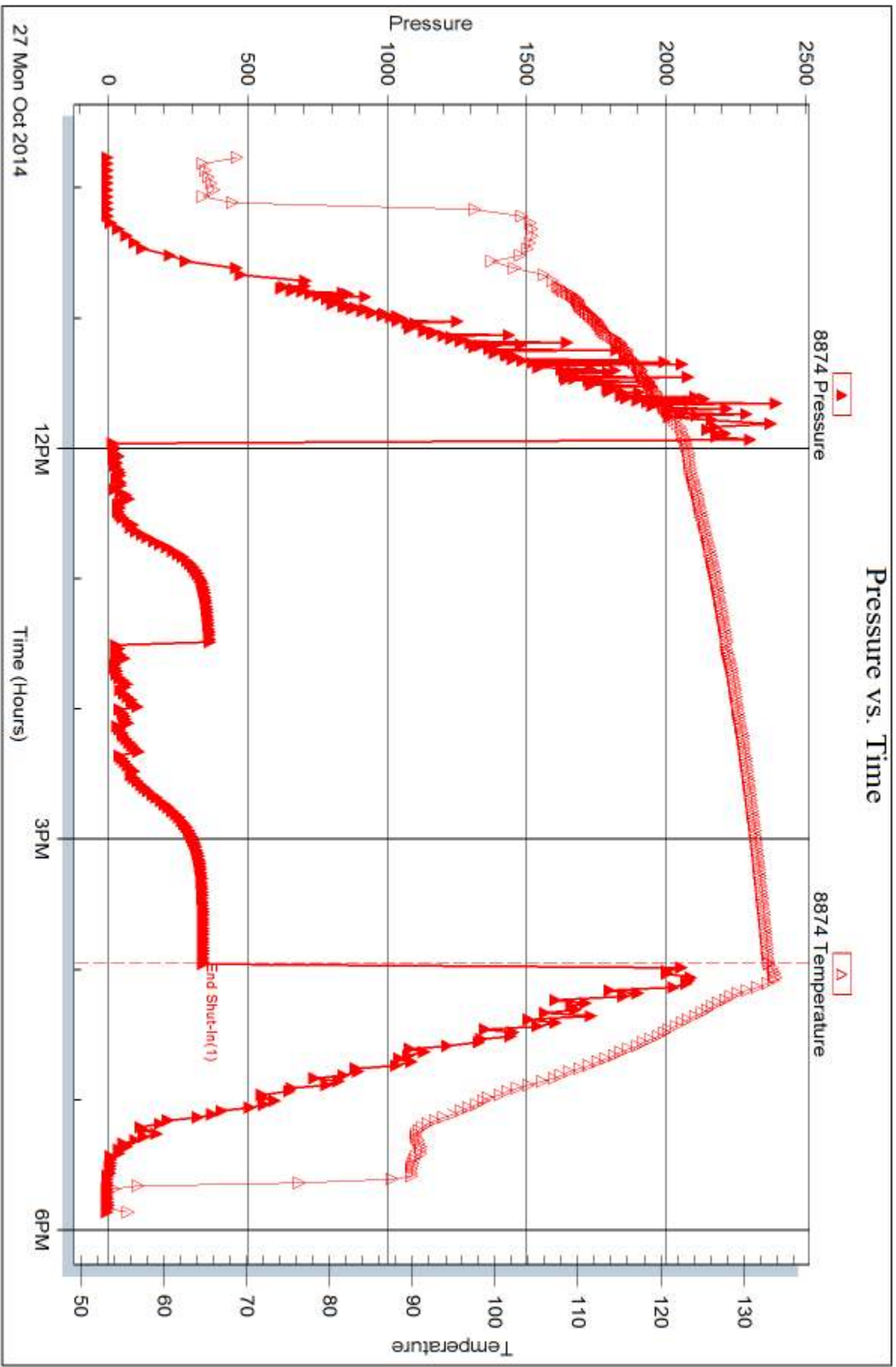
Serial #: 8874

Inside

Murfin Drilling Co., Inc.

Burk Trust D#5-23

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 60197

Printed: 2014, 10:30 @ 16:49:36



DRILL STEM TEST REPORT

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

250 N Water STE #300
Wichita, KS 67202

ATTN: Robert Hendrix

Burk Trust D #5-23

23-1s-36w Rawlins,KS

Start Date: 2014.10.28 @ 08:40:00

End Date: 2014.10.28 @ 17:25:00

Job Ticket #: 60198 DST #: 4

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.10.30 @ 16:48:06

Murfin Drilling Co., Inc.

23-1s-36w Rawlins,KS

Burk Trust D #5-23

DST # 4

LKC "H.J."

2014.10.28



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Co., Inc.

23-1s-36w Rawlins,KS

250 N Water STE #300
Wichita, KS 67202

Burk Trust D #5-23

Job Ticket: 60198

DST#: 4

ATTN: Robert Hendrix

Test Start: 2014.10.28 @ 08:40:00

GENERAL INFORMATION:

Formation: **LKC "H-J"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:40:30

Time Test Ended: 17:25:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Kevin Mack

Unit No: 66

Interval: 4382.00 ft (KB) To 4475.00 ft (KB) (TVD)

Reference Elevations: 3318.00 ft (KB)

Total Depth: 4475.00 ft (KB) (TVD)

3307.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

Serial #: 8874

Inside

Press@RunDepth: 212.35 psig @ 4383.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.10.28

End Date:

2014.10.28

Last Calib.:

2014.10.28

Start Time: 08:41:00

End Time:

17:25:00

Time On Btm:

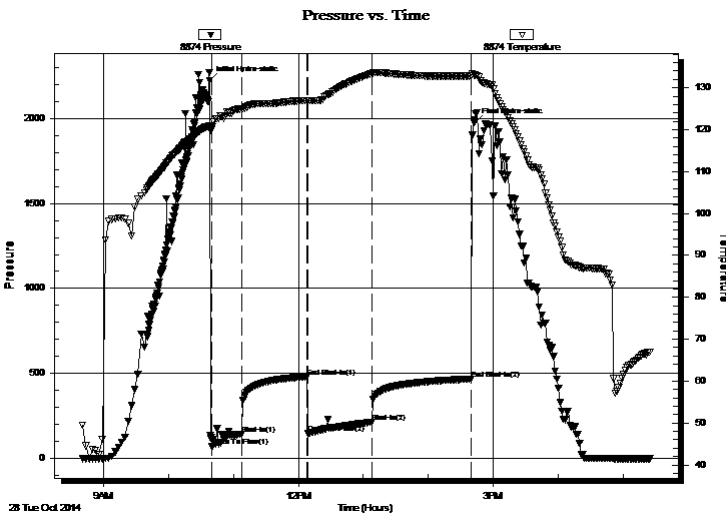
2014.10.28 @ 10:38:20

Time Off Btm:

2014.10.28 @ 14:42:30

TEST COMMENT: 30 - IF- 1/2" Blow built to BoB in 28 min.
60 - IS- No Return
60 - FF- Surface Blow started at 2 min. Built to BoB in 45 min.
90 - FS- No Return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2224.20	120.76	Initial Hydro-static
3	68.18	120.68	Open To Flow (1)
30	141.28	124.96	Shut-In(1)
90	480.48	126.97	End Shut-In(1)
91	144.66	126.90	Open To Flow (2)
150	212.35	133.37	Shut-In(2)
241	466.78	132.82	End Shut-In(2)
245	1977.97	133.01	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	OSMW 20M 80W (oil spots)	0.59
126.00	OCWM 10o 40W 50M	0.98
189.00	OCM 90M 10o	2.65

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 67202

Burk Trust D #5-23

Job Ticket: 60198

DST#: 4

ATTN: Robert Hendrix

Test Start: 2014.10.28 @ 08:40:00

Tool Information

Drill Pipe:	Length: 4164.00 ft	Diameter: 3.80 inches	Volume: 58.41 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: 206.00 ft	Diameter: 2.25 inches	Volume: 1.01 bbl	Weight to Pull Loose: 78000.00 lb
			<u>Total Volume: 59.42 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	16.00 ft			String Weight: Initial 68000.00 lb
Depth to Top Packer:	4382.00 ft			Final 75000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	93.00 ft			
Tool Length:	121.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

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

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4355.00	
Shut In Tool	5.00			4360.00	
Hydraulic tool	5.00			4365.00	
Jars	5.00			4370.00	
Safety Joint	3.00			4373.00	
Packer	5.00			4378.00	28.00 Bottom Of Top Packer
Packer	4.00			4382.00	
Stubb	1.00			4383.00	
Recorder	0.00	8653	Outside	4383.00	
Recorder	0.00	8874	Inside	4383.00	
Perforations	22.00			4405.00	
Change Over Sub	1.00			4406.00	
Drill Pipe	63.00			4469.00	
Change Over Sub	1.00			4470.00	
Bullnose	5.00			4475.00	93.00 Bottom Packers & Anchor

Total Tool Length: 121.00



**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 67202

Burk Trust D #5-23

Job Ticket: 60198

DST#: 4

ATTN: Robert Hendrix

Test Start: 2014.10.28 @ 08:40:00

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:

38000 ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.40 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 700.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
120.00	OSMW 20M 80W (oil spots)	0.590
126.00	OCWM 10o 40W 50M	0.984
189.00	OCM 90M 10o	2.651

Total Length: 435.00 ft Total Volume: 4.225 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW .24 @ 59 deg= 38,000ppm

Serial #: 8874

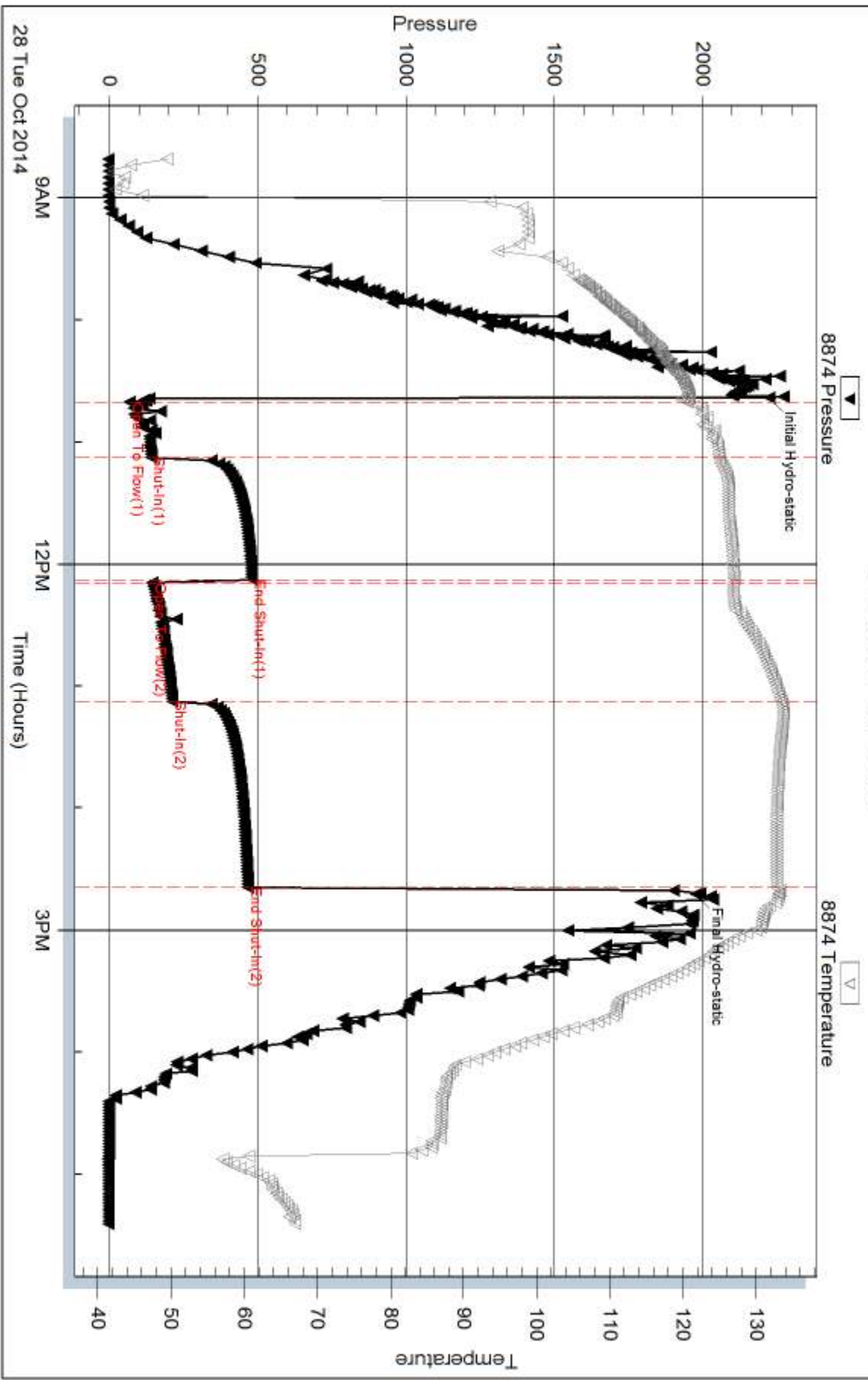
Inside

Murfin Drilling Co., Inc.

Burk Trust D#5-23

DST Test Number: 4

Pressure vs. Time



Triobite Testing, Inc

Ref. No: 60198

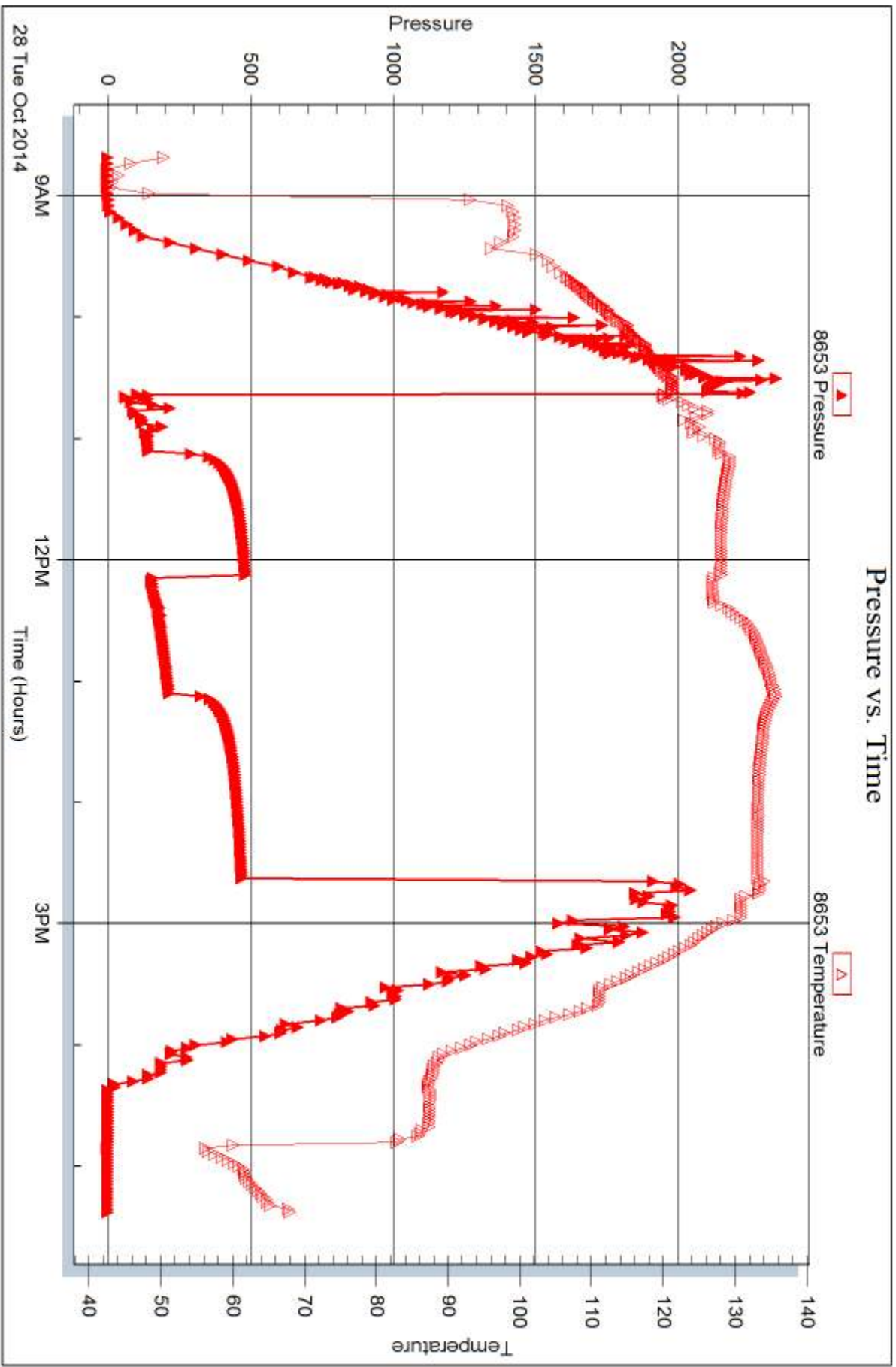
Printed: 2014, 10:30 @ 16:48:07

Serial #: 8653

Outside Murfin Drilling Co., Inc.

Burk Trust D#5-23

DST Test Number: 4



Trilobite Testing, Inc

Ref. No: 60198

Printed: 2014, 10:30 @ 16:48:07



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 60195

4/10

Well Name & No. Burk Trust D#5-23 Test No. 1 Date 10-25-14
 Company Murfin Drilling Co., Inc Elevation 3318 KB 3307 GL
 Address 2508 N Water STE #300 Wichita, KS 67202
 Co. Rep / Geo. Robert Hendrik Rig Murfin #2
 Location: Sec. 23 Twp. 1S Rge. 36W Co. Rawlins State KS

Interval Tested 4111-4157 Zone Tested Orend
 Anchor Length 46' Drill Pipe Run 3907 Mud Wt. 9.1
 Top Packer Depth 4107 Drill Collars Run 206 Vis 65
 Bottom Packer Depth 4111 Wt. Pipe Run 0 WL 6.4
 Total Depth 4157 Chlorides 700 ppm System LCM 11#
 Blow Description IF - 1/4" Blow built to 3/4"
ISI - No Return
FF - No Blow
FSI - No Return

Rec	Feet of	%gas	SPOTS	%oil	%water	%mud
<u>20</u>	<u>OSM</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 20' BHT 131 Gravity - API RW - @ - °F Chlorides - ppm

(A) Initial Hydrostatic <u>2118</u>	<input checked="" type="checkbox"/> Test <u>1250</u>	T-On Location <u>8:55 AM</u>
(B) First Initial Flow <u>17</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>9:53 AM</u>
(C) First Final Flow <u>30</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>12:13 PM</u>
(D) Initial Shut-In <u>111</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>4:13 PM</u>
(E) Second Initial Flow <u>23</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>6:13 PM</u>
(F) Second Final Flow <u>31</u>	<input checked="" type="checkbox"/> Mileage <u>108 RT</u> 167.40	Comments
(G) Final Shut-In <u>111</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>1960</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer
Initial Shut-In <u>60</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Final Flow <u>60</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Shut-In <u>90</u>	<input type="checkbox"/> Day Standby	Total <u>1742.40</u>
	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1742.40</u>	

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. 60196

Well Name & No. Buck Trust D #5-23 Test No. 2 Date 10-26-14
 Company Murfin Drilling Co., Inc. Elevation 3318 KB 3307 GL
 Address 250 N Water STE # 3000 Wichita, KS 67202
 Co. Rep / Geo. Robert Hendrix Rig Murfin #2
 Location: Sec. 23 Twp. 1S Rge. 36W Co. Rawlins State KS

Interval Tested 4226-4234 4324 Zone Tested LKC "D"
 Anchor Length 58' Drill Pipe Run _____ Mud Wt. 9.1
 Top Packer Depth 4262 Drill Collars Run 2006 Vis 64
 Bottom Packer Depth 4266 Wt. Pipe Run 0 WL 7.2
 Total Depth 4234 Chlorides 700 ppm System LCM 10#

Blow Description IF - BoB in 10 min.
ISI - Surface Return started at 3 min. Built to 3 3/4"
FF - BoB in 19 min
FSI - Surface Return started at 1 min. Built to 8 3/4"

Rec	Feet of	%gas	%oil	%water	%mud
<u>176</u>	<u>CGO</u>	<u>30</u>	<u>70</u>		
<u>126</u>	<u>GWCMO</u>	<u>20</u>	<u>30</u>	<u>20</u>	<u>30</u>
<u>126</u>	<u>OCMW</u>		<u>10</u>	<u>60</u>	<u>30</u>
<u>180</u>	<u>OCMW</u>		<u>5</u>	<u>75</u>	<u>20</u>
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 608' BHT 142 Gravity 22 API RW 0.16 @ 63 °F Chlorides 57,000 ppm

(A) Initial Hydrostatic 2224 Test 1250 T-On Location 2:10 PM
 (B) First Initial Flow 1000 Jars 250 T-Started 2:12 PM
 (C) First Final Flow 184 Safety Joint 75 T-Open 4:30 PM
 (D) Initial Shut-In 400 Circ Sub _____ T-Pulled 8:30 PM
 (E) Second Initial Flow 195 Hourly Standby _____ T-Out 11:00 PM
 (F) Second Final Flow 271 Mileage 108 RT 167.40 Comments 504' GIP
 (G) Final Shut-In 302 Sampler _____
 (H) Final Hydrostatic 2034 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Extra Recorder _____

Initial Open 30 Sub Total 0
 Initial Shut-In 60 Total 1742.40
 Final Flow 60 MP/DST Disc't _____
 Final Shut-In 90 Sub Total 1742.400

Approved By _____ Our Representative

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 60197

Well Name & No. Burk Trust D #5-23 Test No. 3 Date 10-27-14
 Company Murphy Drilling Co., Inc. Elevation 3318 KB 3307 GL
 Address 2508 N Water STE #300 Wichita, KS 67202
 Co. Rep / Geo. Robert Hendrix Rig Murphy #2
 Location: Sec. 23 Twp. 1S Rge. 26 W Co. Rawlins State KS

Interval Tested 4336 - 4390 Zone Tested LKC "6"
 Anchor Length 54' Drill Pipe Run 4130' Mud Wt. 9.3
 Top Packer Depth 4332 Drill Collars Run 206 Vis 62
 Bottom Packer Depth 4336 Wt. Pipe Run 0 WL 7.2
 Total Depth 4390 Chlorides 800 ppm System LCM 9#
 Blow Description IF - 1/4" Blow built to 1/2", then died back to surface Blow
ISI - No Return
FF - No Blow
FST - No Return

Rec	Feet of	%gas	SPOTS	%oil	%water	%mud
<u>108</u>	<u>OSM</u>				<u>1000</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 108' BHT 133 Gravity - API RW - @ - °F Chlorides - ppm

(A) Initial Hydrostatic <u>2179</u>	<input checked="" type="checkbox"/> Test <u>1250</u>	T-On Location <u>9:30 AM</u>
(B) First Initial Flow <u>21</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>9:45 AM</u>
(C) First Final Flow <u>41</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>12:00 PM</u>
(D) Initial Shut-In <u>367</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>4:00 PM</u>
(E) Second Initial Flow <u>26</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>5:52 PM</u>
(F) Second Final Flow <u>83</u>	<input checked="" type="checkbox"/> Mileage <u>108 RT</u> 167.40	Comments
(G) Final Shut-In <u>344 344</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2005</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
Initial Open <u>300</u>	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer
Initial Shut-In <u>600</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Final Flow <u>60</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Shut-In <u>90</u>	<input type="checkbox"/> Day Standby	Total <u>1742.40</u>
	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1742.40</u>	

Approved By _____ Our Representative [Signature]

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 60198

Well Name & No. Buck Trust D#5-23 Test No. 4 Date 10-28-14
 Company Murfin Drilling Co., Inc. Elevation 3318 KB 3307 GL
 Address 2500 N Water STE # 3000 Wichita, KS 67202
 Co. Rep / Geo. Robert Henrix Rig Murfin #2
 Location: Sec. 23 Twp. 1S Rge. 36W Co. Rawlins State KS

Interval Tested 4382-4475 Zone Tested LKC "H-J"
 Anchor Length 93' Drill Pipe Run 4164' Mud Wt. 9.2
 Top Packer Depth 4378 Drill Collars Run 2086' Vis 56
 Bottom Packer Depth 4382 Wt. Pipe Run 0' WL 6.4
 Total Depth 4475 Chlorides 700 ppm System LCM 12#

Blow Description IF - 1/2" Blow built to BoB in 28 min.
ISI - No Return
PF - Surface Blow started at 2 min. Built to BoB in 45 min.
FST - No Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>189</u>	<u>CCM</u>	<u>10</u>		<u>90</u>	
<u>126</u>	<u>CCM</u>	<u>10</u>	<u>40</u>	<u>50</u>	
<u>120</u>	<u>OS MW</u>	<u>SPOTS</u>	<u>80</u>	<u>20</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 435 BHT 133 Gravity - API RW 24 @ 59 °F Chlorides 38,000 ppm

(A) Initial Hydrostatic 2224 Test 1250 T-On Location 8:35 AM
 (B) First Initial Flow 68 Jars 250 T-Started 8:40 AM
 (C) First Final Flow 141 Safety Joint 75 T-Open 10:40 AM
 (D) Initial Shut-In 480 Circ Sub _____ T-Pulled 2:40 PM
 (E) Second Initial Flow 144 Hourly Standby _____ T-Out 4:26 PM
 (F) Second Final Flow 212 Mileage 108 RT 167.40 Comments _____
 (G) Final Shut-In 466 Sampler _____
 (H) Final Hydrostatic 1977 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____

Initial Open 300
 Initial Shut-In 600
 Final Flow 600
 Final Shut-In 900

Sub Total 1742.40
 Total 1742.40
 MP/DST Disc't _____

Approved By _____ Our Representative

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