



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1214120
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: _____

1214120

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

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

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

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

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

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

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

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

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

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

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

TUBING RECORD:	Size:	Set At:	Packer At:	Liner Run: <input type="checkbox"/> Yes <input type="checkbox"/> No
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Date of First, Resumed Production, SWD or ENHR.	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____
---	--

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

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
--	--	---

Form	ACO1 - Well Completion
Operator	Murfin Drilling Co., Inc.
Well Name	Dellere 1-25
Doc ID	1214120

All Electric Logs Run

Dual Induction
Dual Compensated
Microresistivity
Borehole Compensated



INVOICE

*accr.
Prod-Lt.*

PO Box 93999
Southlake, TX 76092

Invoice Number: 1422 15
Invoice Date: Mar 24, 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	61329	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-01	Oakley	Mar 24, 2014	4/23/14

Quantity	Item	Description	Unit Price	Amount
1.00	WELL NAME	Dellere #1-25		
190.00	CEMENT MATERIALS	Class A Common	17.90	3,401.00
7.00	CEMENT MATERIALS	Chloride	64.00	448.00
199.50	CEMENT SERVICE	Cubic Feet Charge	2.48	494.76
414.00	CEMENT SERVICE	Ton Mileage Charge	2.60	1,076.40
1.00	CEMENT SERVICE	Surface	1,512.25	1,512.25
45.00	CEMENT SERVICE	Pump Truck Mileage	7.70	346.50
1.00	CEMENT SERVICE	Swedge Manifold Rental	225.00	225.00
45.00	CEMENT SERVICE	Light Vehicle Mileage	4.40	198.00
1.00	EQUIPMENT OPERATOR	Paul Beaver		
1.00	EQUIPMENT OPERATOR	Tyler Flipse		
1.00	OPERATOR ASSISTANT	Adam Flipse		

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

\$ 2,695.66

OK 35%

ONLY IF PAID ON OR BEFORE

Apr 18, 2014

Subtotal	7,701.91
Sales Tax	304.07
Total Invoice Amount	8,005.98
Payment/Credit Applied	
TOTAL	8,005.98

OK SR

-2695.66
5310.32

ALLIED OIL & GAS SERVICES, LLC 061329

Federal Tax I.D. # 20-8651475

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

SERVICE POINT: Oakley KS

DATE <u>3-24-14</u>	SEC <u>25</u>	TWP <u>4</u>	RANGE <u>31</u>	CALLED OUT	ON LOCATION	JOB START <u>7:30am</u>	JOB FINISH <u>8:00am</u>
LEASE <u>Delite</u>	WELL # <u>1-25</u>	LOCATION <u>Rexford 8W 1E</u>	COUNTY <u>Rawlrs</u>	STATE <u>KS</u>			
OLD OR NEW (Circle one)		<u>8W 2W Sinto</u>					

CONTRACTOR Martin 2 OWNER Same

TYPE OF JOB Surface
 HOLE SIZE 12 1/4 T.D. 225
 CASING SIZE 8 5/8 DEPTH 225
 TUBING SIZE DEPTH
 DRILL PIPE DEPTH

CEMENT AMOUNT ORDERED 190 sks (100 3 1/2)

TOOL DEPTH
 PRES. MAX MINIMUM
 MEAS. LINE SHOE JOINT

COMMON 190 sks @ 17.90 = 3401.00

CEMENT LEFT IN CSG. 15
 PERFS.
 DISPLACEMENT 14,000 bbl water

GEL @
 CHLORIDE 11 sks @ 64.00 = 704.00
 ASC @

EQUIPMENT

PUMP TRUCK CEMENTER Paul Beamer
 # 120 HELPER Tyler Flippe
 BULK TRUCK
 # 373 DRIVER Adam Flyso
 BULK TRUCK
 # DRIVER

HANDLING 199.5 ft @ 2.48 = 494.76
 MILEAGE 7.20 tons x 45 mi @ 2.60 = 1076.40
 TOTAL 5,420.16

REMARKS:
mix 140 sks
Displace w/ water
cement did circ.

SERVICE

DEPTH OF JOB 225'
 PUMP TRUCK CHARGE 1512.25
 EXTRA FOOTAGE @
 MILEAGE 1141.45 @ 7.70 = 8765.50
 MANIFOLD Sledge @ 225.00
mhw @ 4.40 = 198.00

CHARGE TO: Martin Dng
 STREET
 CITY STATE ZIP

TOTAL 2281.75

PLUG & FLOAT EQUIPMENT

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.

SALES TAX (If Any)

PRINTED NAME Arvis Cabezas

TOTAL CHARGES 7,701.91

SIGNATURE Arvis Cabezas

DISCOUNT 2,695.66 IF PAID IN 30 DAYS
5,006.24 Net.



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



Invoice

DATE	INVOICE #
4/1/2014	25413

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

- Acidizing
- Cement
- Tool Rental

TERMS	Well No.	Lease	County	Contractor	Well Type	Well Category	Job Purpose	Operator
Net 30	#1-25	Dellere#	Rawlins	Company Tools #2	Oil	Development	Top To Bottom ...	Nick
PRICE REF.	DESCRIPTION				QTY	UM	UNIT PRICE	AMOUNT
575D	Mileage - 1 Way				130	Miles	6.00	780.00
579D	Pump Charge - Top To Bottom LongString - 4590 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
330	Swift Multi-Density Standard (MIDCON II)				300	Sacks	18.50	5,550.00T
276	Flocele				125	Lb(s)	2.50	312.50T
283	Salt				1,000	Lb(s)	0.20	200.00T
284	Calseal				9	Sack(s)	35.00	315.00T
285	CFR-1				150	Lb(s)	4.50	675.00T
581D	Service Charge Cement				500	Sacks	2.00	1,000.00
583D	Drayage				3,269.5	Ton Miles	1.00	3,269.50
	Subtotal							21,837.00
	Sales Tax Rawlins County						7.90%	1,168.21
We Appreciate Your Business!						Total		\$23,005.21



CHARGE TO: Martin's Dely Co. Inc.
 ADDRESS
 CITY, STATE, ZIP CODE

TICKET 25413

PAGE 1 OF 2

SERVICE LOCATIONS
 1. Hays, KS WELLS/PROJECT NO. #1-20 LEASE Dellman COUNTY/PARISH Rawlins STATE KS CITY
 2. Ness City, KS CONTRACTOR Co Tools RIG NAME NO. H 2 SHIPPED VIA Tractor DELIVERED TO WELL PERMIT NO. ORDER NO. 4-1-14 OWNER S. J. J. J.
 3. WELL TYPE C11 WELL CATEGORY Development JOB PURPOSE Top to Bottom Logging WELL LOCATION
 4. REFERRAL LOCATION INVOICE INSTRUCTIONS

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.	UM	QTY.	UM	UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
575					MILEAGE	130	Mi			6.00	780.00
574					Pump Charge (Top to Bottom)	1	ea	4500		2000.00	2000.00
221					KEL	4	gal			25.00	100.00
281					Mud Blast	5	gal			1.00	5.00
290					D-Air	3	no	5.22		72.66	210.00
405					Baskets	1	ea			300.00	300.00
406					1 D Plug 1 Baffle	1	ea			275.00	275.00
407					Tarset Flats her w/ 15" H	1	ea			375.00	375.00
409					Truss Bolts	15	ea			90.00	1350.00
413					Rotomall Scratchers	20	ea			40.00	800.00
419					Rotating Head	1	ea			200.00	200.00

LEGAL TERMS: Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, PAYMENT, RELEASE, INDEMNITY, and LIMITED WARRANTY provisions.

MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS
 X Steve Johnson TIME SIGNED 15:20 A.M. P.M.

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

SURVEY	AGREE	UN-DECIDED	DIS-AGREE	PAGE TOTAL	AMOUNT
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?				7615	0.00
WE UNDERSTOOD AND MET YOUR NEEDS?				14222	0.00
OUR SERVICE WAS PERFORMED WITHOUT DELAY?				21837	0.00
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?				1168	21
ARE YOU SATISFIED WITH OUR SERVICE?	<input type="checkbox"/> YES	<input type="checkbox"/> NO		TOTAL	23,005.21

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



Swifton, Inc.

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

TICKET CONTINUATION

TICKET No. 25913

CUSTOMER: Mrs. J. D. Dyer Co. Inc. WELL # 1-25 DeHeres DATE: 4-1-19 PAGE 2 OF 2

PRICE REFERENCE	SECONDARY REFERENCE PART NUMBER	ACCOUNTING		TITLE	DESCRIPTION	QTY	UM	QTY	UM	UNIT PRICE	AMOUNT
		LOC	ACC								

395					Standard Lumber	200	shs			14.50	2900.00
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330					SMD Cement	300	shs			18.50	5550.00
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0-16					Flacalc	125	#	4	1/4	2.50	312.50
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283					Self	1000	#	10	1/2	2.00	2000.00
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284					Cal Seal	9	shs	5	1/2	35.00	315.00
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285					C.P.R. 1	150	#	25	1/2	4.50	675.00
-----	--	--	--	--	----------	-----	---	----	-----	------	--------

SERVICE CHARGE		MILEAGE CHARGE		TOTAL WEIGHT		LOADED MILES		CUBIC FEET		TON MILES	
QTY	UM	QTY	UM	QTY	UM	QTY	UM	QTY	UM	QTY	UM
2		503.00		503.00		130		3269.5		1	00

CONTINUATION TOTAL 14222.00

JOB LOG

SWIFT Services, Inc.

DATE 2-1-14 PAGE NO. 1

CUSTOMER Murphy Drilling Co. Inc.

WELL NO. 41-25

LEASE Dellwood

JOB TYPE 7" p to Bottom

TICKET NO. 25413

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	0940							on loc w/ FE
								RTD 45 40'
								5 1/2" x 15.5" x 45.34' x 20'
								Cent 1-9, 11, 13, 15, 22, 45, 68
								Back 23, 46, 69
	1030							Start FE
	1140							2 way Break Circ.
	1245							on Bottom Break Circ
	1355	5	0				200	start Mudflush 500 gal
		5	12/0				200	start jobbl KCL flush
		5	20/0				200	start 255 gals SMD
		5	145/0				200	start 200 sks FA-2
	1440		18					land cement
								Wash P/L
								Drop L D Plug
	1446	6	0				200	start Displacement KCL in 1st jobbl
	1454	5	79				850	circ Cement
	1505		107.5				1200/1600	land Plug
								Release Pressure
								Float Held
	1510		7/4					Plug RH & MH
								circ 300 sks topist
								Thank you
								Nick, Jon, Jason & Craig

Dellere #1-25
 Daily Drilling Report
 Page Two

- 3/31/14 Depth 4427'. Cut 287'. DT: ½ hr pump. CT: 4hrs. Dev.: None.
- 4/01/14 Depth 4540'. Cut 113'. DT: None. CT: 17¼ hrs. Dev.: ¾° @ 4540'. HC @ 1:45PM 3/31. Pioneer logged 9:30PM 3/31 – 1:30AM 4/01. LTD: 4540'. LD Pipe
- 4/02/14 RTD: 4540'. CT: 12hrs. Ran 108jts of 5 ½" prod csg, set @ 4534'. Swift cmt w/450sxs (250sxs SMD, 200sxs EA-2). PD @ 3:00PM 4/1. 30sxs RH, 20sxs MH. Circ 30BBLs. RR @ 7:00PM 4/1/14. FINAL REPORT

Dellere #1-25 700' FNL 900' FWL Sec. 25-4S-31W 2910' KB						Gilbert Unit #1-26 200' FNL 1050' FEL Sec. 26-4S-31W 2901' KB		
Formation	Sample top	Datum	Ref	Log tops	Datum	Ref	Log tops	Datum
Anhydrite	2660	+250	+11	2659	+251	+12	2662	+239
B/Anhydrite	2693	+217	+9	2692	+218	+10	2693	+208
Topeka	3733	-823	+3	3731	-821	+5	3727	-826
Heebner	3896	-986	+6	3895	-985	+7	3893	-992
Lansing	3945	-1035	+5	3943	-1033	+7	3941	-1040
Stark	4111	-1201	+5	4110	-1200	+6	4107	-1206
BKC	4157	-1247	+7	4158	-1248	+6	4155	-1254
Pawnee	4269	-1359	+9	4272	-1362	+6	4269	-1368
Cherokee	4359	-1449	+4	4358	-1448	+5	4354	-1453
Mississippi	4467	-1557	+4	4455	-1545	+16	4462	-1561
RTD	4540						4530	
LTD				4540			4529	



DRILL STEM TEST REPORT

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

250 N Water STE 300
Wichita, KS 67202

ATTN: Robert Hendrix

Dellere #1-25

25- 4s- 31w Rawlings,KS

Start Date: 2014.03.27 @ 22:08:00

End Date: 2014.03.28 @ 06:31:00

Job Ticket #: 56373 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2014.04.02 @ 16:23:26



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Co., Inc.

25- 4s- 31w Rawlings,KS

250 N Water STE 300
Wichita, KS 67202

Dellere #1-25

Job Ticket: 56373

DST#: 1

ATTN: Robert Hendrix

Test Start: 2014.03.27 @ 22:08:00

GENERAL INFORMATION:

Formation: **Toronto - LKC " B "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:21:15

Time Test Ended: 06:31:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Samuel Esparza

Unit No: 71

Interval: 3894.00 ft (KB) To 3980.00 ft (KB) (TVD)

Reference Elevations: 2910.00 ft (KB)

Total Depth: 3980.00 ft (KB) (TVD)

2899.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

Serial #: 8845

Inside

Press@RunDepth: 78.80 psig @ 3895.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.03.27

End Date:

2014.03.28

Last Calib.:

2014.03.28

Start Time: 22:08:05

End Time:

06:30:59

Time On Btm:

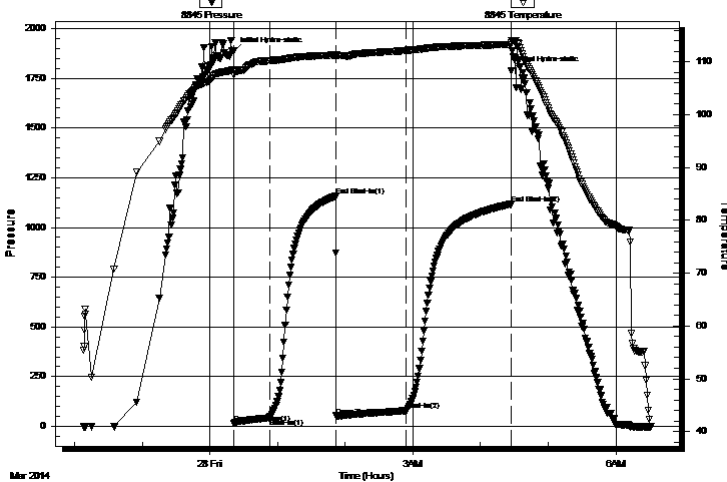
2014.03.28 @ 00:21:00

Time Off Btm:

2014.03.28 @ 04:27:15

TEST COMMENT: IF: 4 1/2" Blow .
IS: No Return.
FF: 8 1/4" Blow .
FS: 1/4" Return.

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1885.10	108.48	Initial Hydro-static
1	16.45	107.50	Open To Flow (1)
32	42.52	110.20	Shut-In(1)
91	1157.56	111.28	End Shut-In(1)
91	52.48	111.10	Open To Flow (2)
154	78.80	112.17	Shut-In(2)
246	1116.92	113.31	End Shut-In(2)
247	1787.09	113.70	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
140.00	GOCM 10g 40o 50m	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 67202
ATTN: Robert Hendrix

25- 4s- 31w Rawlings,KS

Dellere #1-25

Job Ticket: 56373

DST#: 1

Test Start: 2014.03.27 @ 22:08:00

GENERAL INFORMATION:

Formation: **Toronto - LKC " B "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:21:15

Time Test Ended: 06:31:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Samuel Esparza

Unit No: 71

Interval: **3894.00 ft (KB) To 3980.00 ft (KB) (TVD)**

Total Depth: 3980.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2910.00 ft (KB)

2899.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: 6772 Outside

Press@RunDepth: psig @ 3895.00 ft (KB)

Start Date: 2014.03.27

End Date: 2014.03.28

Capacity: 8000.00 psig

Start Time: 22:08:05

End Time: 06:31:14

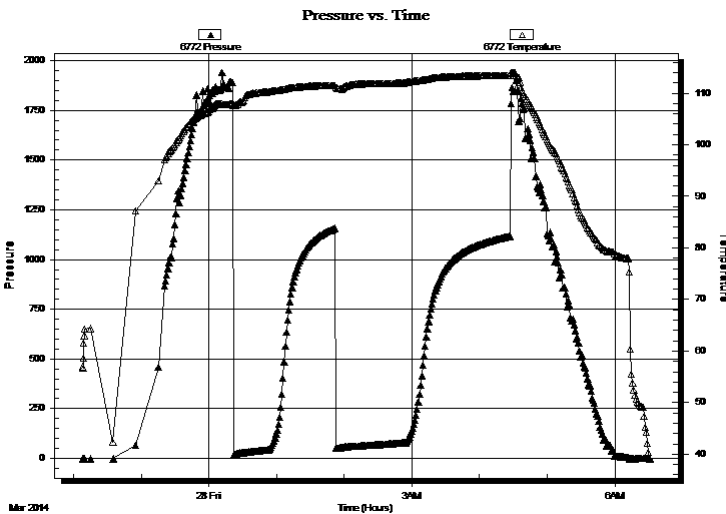
Last Calib.: 2014.03.28

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: 4 1/2" Blow .
IS: No Return.
FF: 8 1/4" Blow .
FS: 1/4" Return.

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
140.00	GOCM 10g 40o 50m	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.

25- 4s- 31w Rawlings,KS

250 N Water STE 300
Wichita, KS 67202

Dellere #1-25

Job Ticket: 56373

DST#: 1

ATTN: Robert Hendrix

Test Start: 2014.03.27 @ 22:08:00

Tool Information

Drill Pipe:	Length: 3689.00 ft	Diameter: 3.80 inches	Volume: 51.75 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	30000.00 lb
Drill Collar:	Length: 207.00 ft	Diameter: 2.25 inches	Volume: 1.02 bbl	Weight to Pull Loose:	95000.00 lb
			<u>Total Volume: 52.77 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial	70000.00 lb
Depth to Top Packer:	3894.00 ft			Final	70000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	86.00 ft				
Tool Length:	114.00 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			3867.00	
Shut In Tool	5.00			3872.00	
Hydraulic tool	5.00			3877.00	
Jars	5.00			3882.00	
Safety Joint	3.00			3885.00	
Packer	5.00			3890.00	28.00 Bottom Of Top Packer
Packer	4.00			3894.00	
Stubb	1.00			3895.00	
Recorder	0.00	6772	Outside	3895.00	
Recorder	0.00	8845	Inside	3895.00	
Perforations	15.00			3910.00	
Change Over Sub	1.00			3911.00	
Drill Pipe	63.00			3974.00	
Change Over Sub	1.00			3975.00	
Bullnose	5.00			3980.00	86.00 Bottom Packers & Anchor

Total Tool Length: 114.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co., Inc.

25- 4s- 31w Rawlings,KS

250 N Water STE 300
Wichita, KS 67202

Dellere #1-25

Job Ticket: 56373

DST#: 1

ATTN: Robert Hendrix

Test Start: 2014.03.27 @ 22:08:00

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: 5.99 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1000.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
140.00	GOCM 10g 40o 50m	0.688

Total Length: 140.00 ft Total Volume: 0.688 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

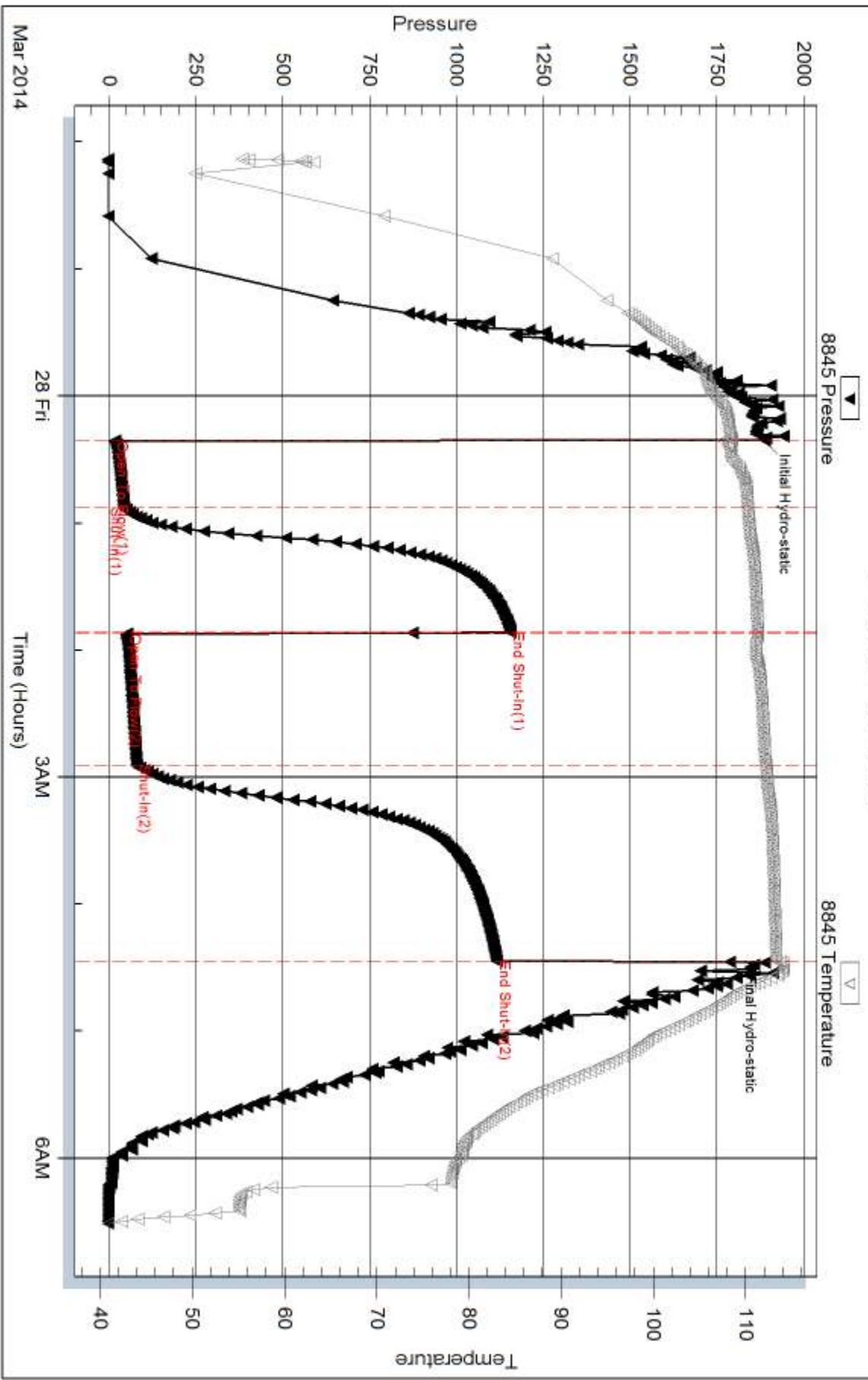
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

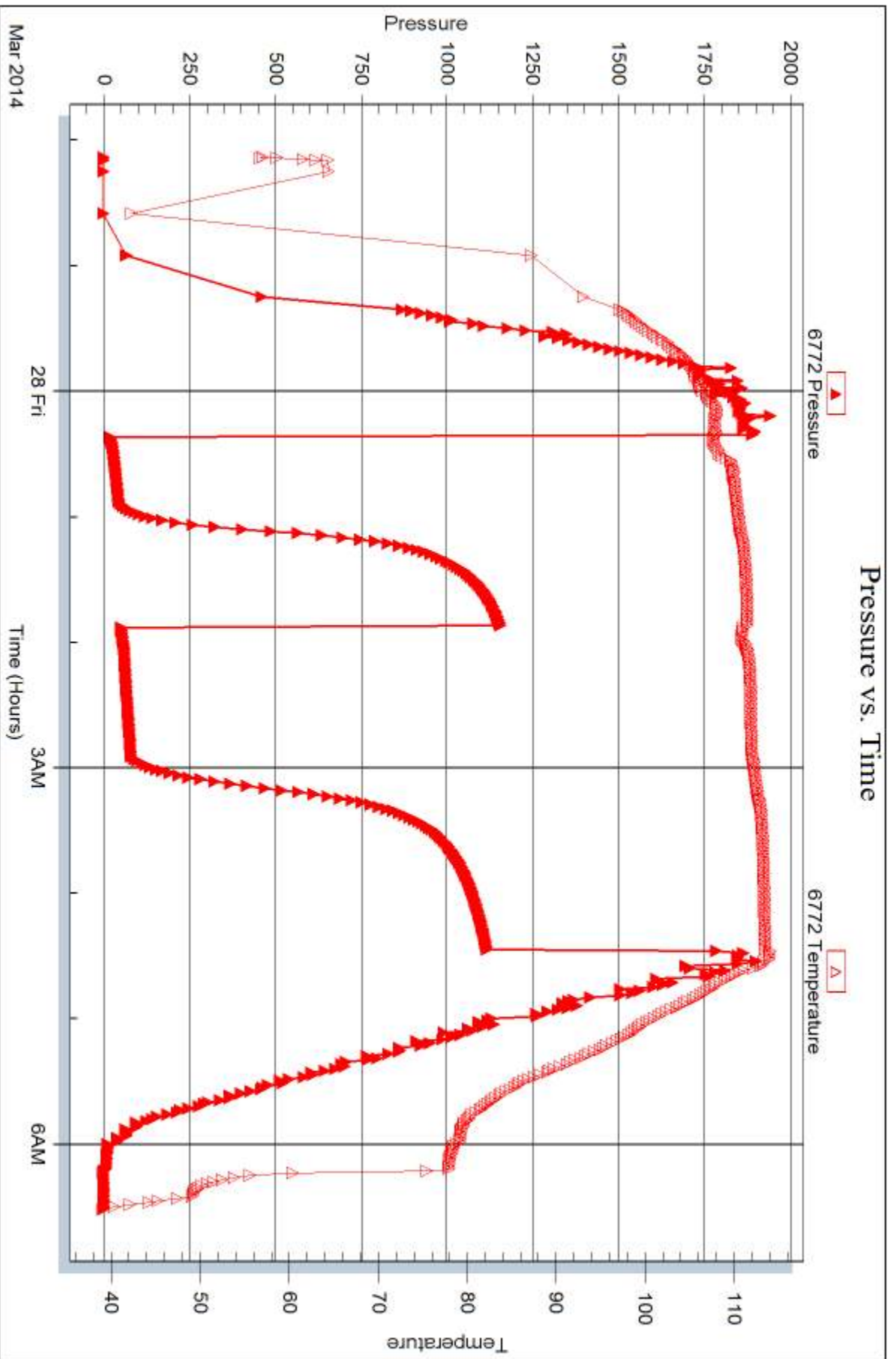


Serial #: 6772

Outside Murfin Drilling Co., Inc.

Delere #1-25

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 56373

Printed: 2014.04.02 @ 16:23:28



DRILL STEM TEST REPORT

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

250 N Water STE 300
Wichita, KS 67202

ATTN: Robert Hendrix

Dellere #1-25

25- 4s- 31w Rawlings,KS

Start Date: 2014.03.28 @ 17:20:00

End Date: 2014.03.29 @ 00:09:45

Job Ticket #: 56374 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2014.04.02 @ 16:23:01



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Co., Inc.

25- 4s- 31w Rawlings,KS

250 N Water STE 300
Wichita, KS 67202

Dellere #1-25

Job Ticket: 56374

DST#: 2

ATTN: Robert Hendrix

Test Start: 2014.03.28 @ 17:20:00

GENERAL INFORMATION:

Formation: **LKC " E- F "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:07:30

Time Test Ended: 00:09:45

Test Type: Conventional Bottom Hole (Reset)

Tester: Samuel Esparza

Unit No: 71

Interval: 3998.00 ft (KB) To 4023.00 ft (KB) (TVD)

Reference Elevations: 2910.00 ft (KB)

Total Depth: 3998.00 ft (KB) (TVD)

2899.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

Serial #: 8845 Outside

Press@RunDepth: 17.57 psig @ 3999.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.03.28

End Date:

2014.03.29

Last Calib.:

2014.03.29

Start Time: 17:20:05

End Time:

00:09:44

Time On Btm:

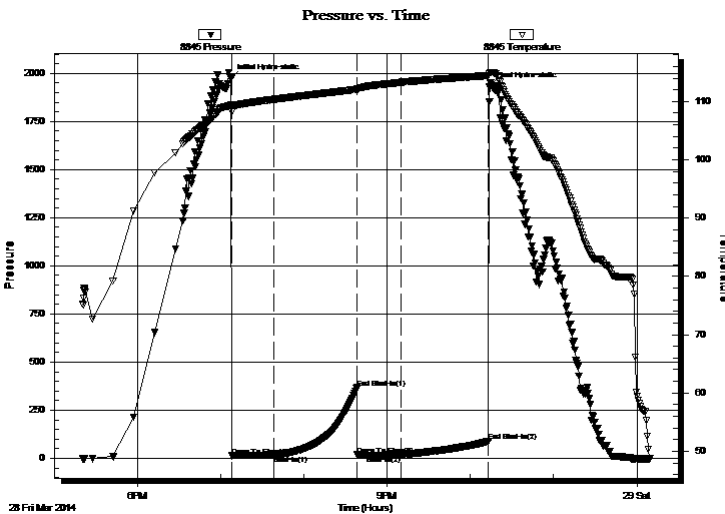
2014.03.28 @ 19:07:15

Time Off Btm:

2014.03.28 @ 22:13:30

TEST COMMENT: IF: 1/4" Blow died back to a Weak surface Blow .
IS: No Return.
FF: No Blow .
FS: No Return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1971.64	109.42	Initial Hydro-static
1	12.20	108.20	Open To Flow (1)
31	15.01	110.35	Shut-In(1)
91	366.32	112.07	End Shut-In(1)
91	17.66	111.97	Open To Flow (2)
123	17.57	113.28	Shut-In(2)
186	87.14	114.45	End Shut-In(2)
187	1931.42	114.83	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud 100m (oil spots)	0.02

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Murfin Drilling Co., Inc.

25- 4s- 31w Rawlings,KS

250 N Water STE 300
Wichita, KS 67202

Dellere #1-25

Job Ticket: 56374

DST#: 2

ATTN: Robert Hendrix

Test Start: 2014.03.28 @ 17:20:00

GENERAL INFORMATION:

Formation: **LKC "E-F"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:07:30

Time Test Ended: 00:09:45

Test Type: Conventional Bottom Hole (Reset)

Tester: Samuel Esparza

Unit No: 71

Interval: 3998.00 ft (KB) To 4023.00 ft (KB) (TVD)

Reference Elevations: 2910.00 ft (KB)

Total Depth: 3998.00 ft (KB) (TVD)

2899.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

Serial #: 6772

Outside

Press@RunDepth: psig @ 3999.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.03.28

End Date:

2014.03.29

Last Calib.:

2014.03.29

Start Time: 17:20:05

End Time:

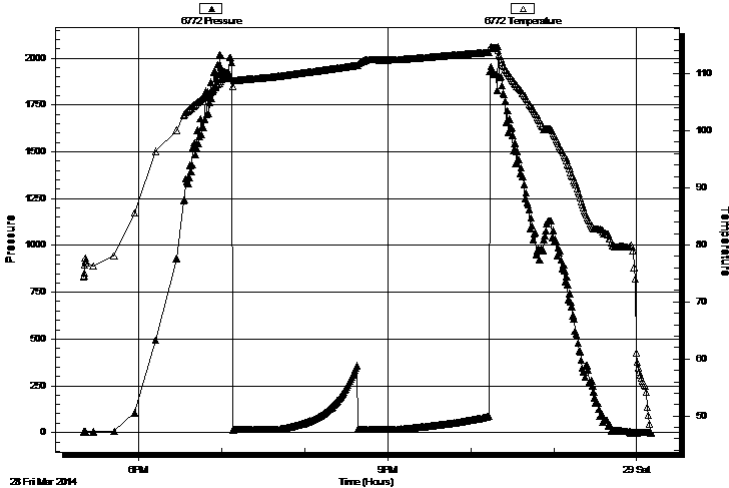
00:09:59

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: 1/4" Blow died back to a Weak surface Blow .
IS: No Return.
FF: No Blow .
FS: No Return.

Pressure vs. Time



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud 100m (oil spots)	0.02

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co., Inc.

25- 4s- 31w Rawlings,KS

250 N Water STE 300
Wichita, KS 67202

Dellere #1-25

Job Ticket: 56374

DST#: 2

ATTN: Robert Hendrix

Test Start: 2014.03.28 @ 17:20:00

Tool Information

Drill Pipe:	Length: 3783.00 ft	Diameter: 3.80 inches	Volume: 53.07 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	30000.00 lb
Drill Collar:	Length: 207.00 ft	Diameter: 2.25 inches	Volume: 1.02 bbl	Weight to Pull Loose:	100000.0 lb
			<u>Total Volume: 54.09 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial	71000.00 lb
Depth to Top Packer:	3998.00 ft			Final	71000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	25.00 ft				
Tool Length:	53.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

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

Change Over Sub	1.00			3971.00	
Shut In Tool	5.00			3976.00	
Hydraulic tool	5.00			3981.00	
Jars	5.00			3986.00	
Safety Joint	3.00			3989.00	
Packer	5.00			3994.00	28.00 Bottom Of Top Packer
Packer	4.00			3998.00	
Stubb	1.00			3999.00	
Recorder	0.00	6772	Outside	3999.00	
Recorder	0.00	8845	Outside	3999.00	
Perforations	19.00			4018.00	
Bullnose	5.00			4023.00	25.00 Bottom Packers & Anchor

Total Tool Length: 53.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co., Inc.

25- 4s- 31w Rawlings,KS

250 N Water STE 300
Wichita, KS 67202

Dellere #1-25

Job Ticket: 56374

DST#: 2

ATTN: Robert Hendrix

Test Start: 2014.03.28 @ 17:20:00

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: 57.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.59 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1000.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
5.00	Mud 100m (oil spots)	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0

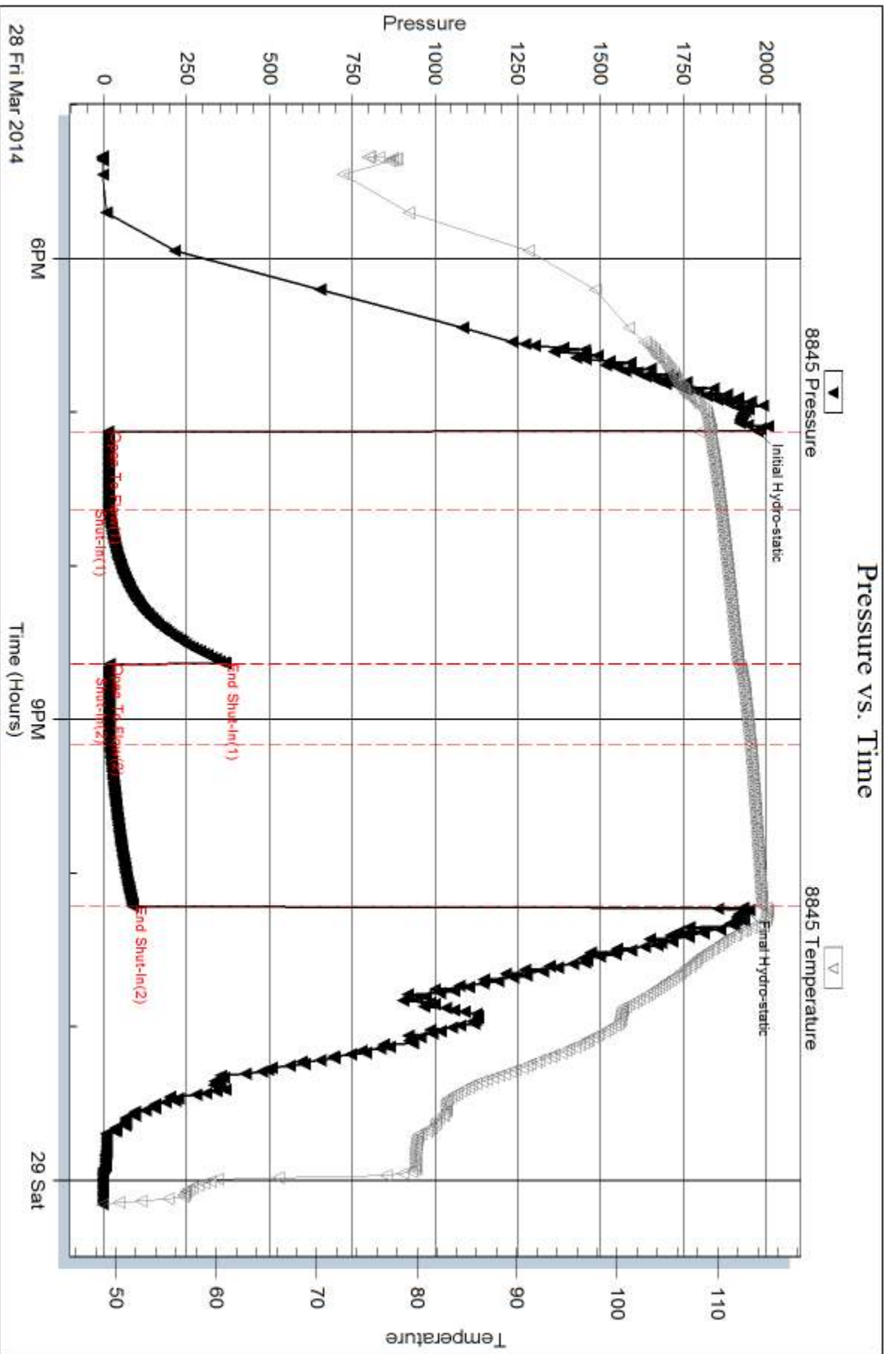
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

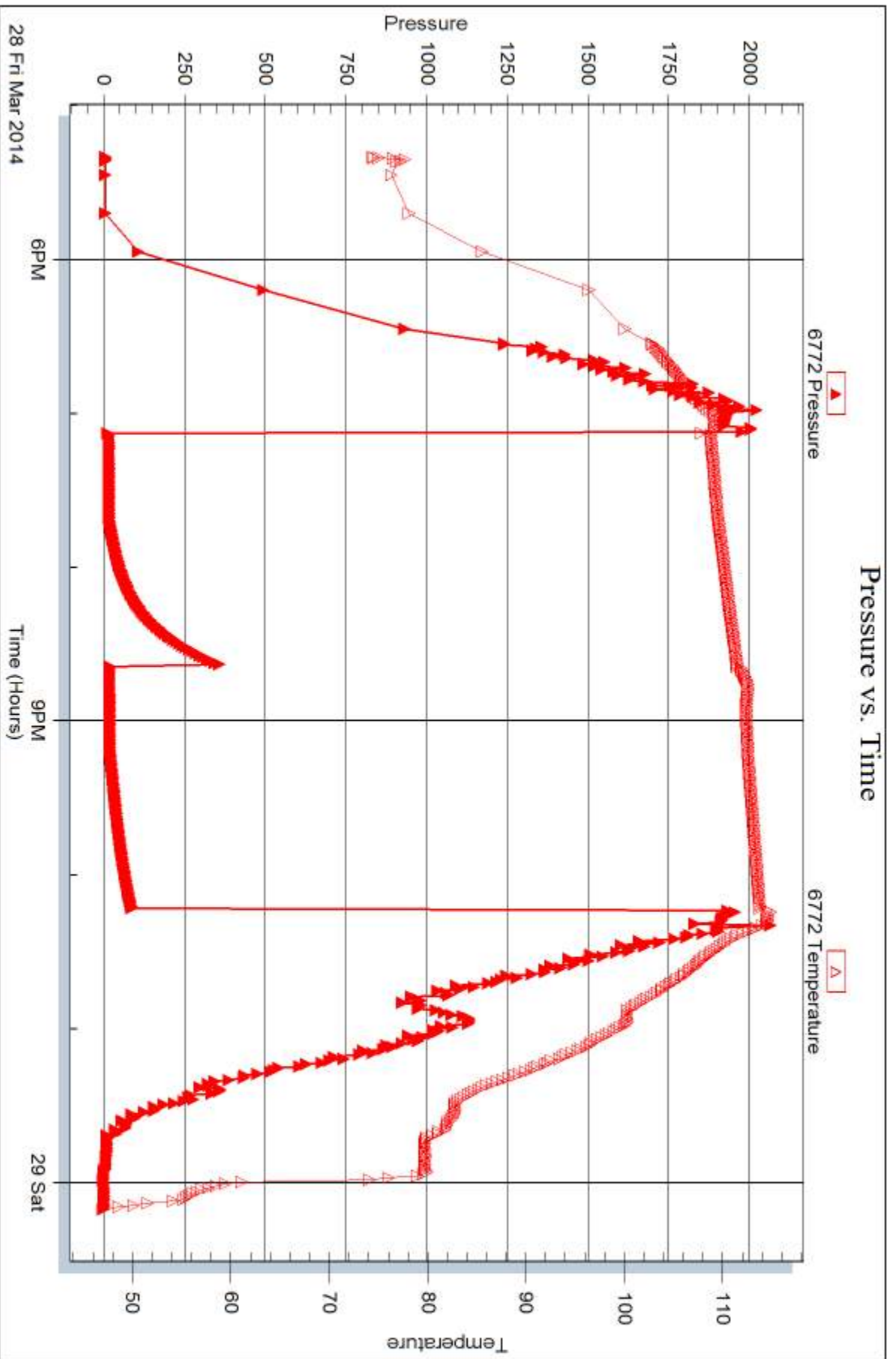


Serial #: 6772

Outside Murfin Drilling Co., Inc.

Deliere #1-25

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 56374

Printed: 2014.04.02 @ 16:23:03



DRILL STEM TEST REPORT

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

250 N Water STE 300
Wichita, KS 67202

ATTN: Robert Hendrix

Dellere #1-25

25- 4s- 31w Rawlings,KS

Start Date: 2014.03.29 @ 14:43:00

End Date: 2014.03.30 @ 01:18:45

Job Ticket #: 56375 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2014.04.02 @ 16:22:24



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co., Inc.

25- 4s- 31w Rawlings,KS

250 N Water STE 300
Wichita, KS 67202

Dellere #1-25

Job Ticket: 56375

DST#: 3

ATTN: Robert Hendrix

Test Start: 2014.03.29 @ 14:43:00

GENERAL INFORMATION:

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

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:49:45

Time Test Ended: 01:18:45

Test Type: Conventional Bottom Hole (Reset)

Tester: Samuel Esparza

Unit No: 71

Interval: 4046.00 ft (KB) To 4111.00 ft (KB) (TVD)

Reference Elevations: 2910.00 ft (KB)

Total Depth: 4111.00 ft (KB) (TVD)

2899.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

Serial #: 8845

Inside

Press@RunDepth: 527.52 psig @ 4047.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.03.29

End Date:

2014.03.30

Last Calib.:

2014.03.30

Start Time:

14:43:05

End Time:

01:18:45

Time On Btm:

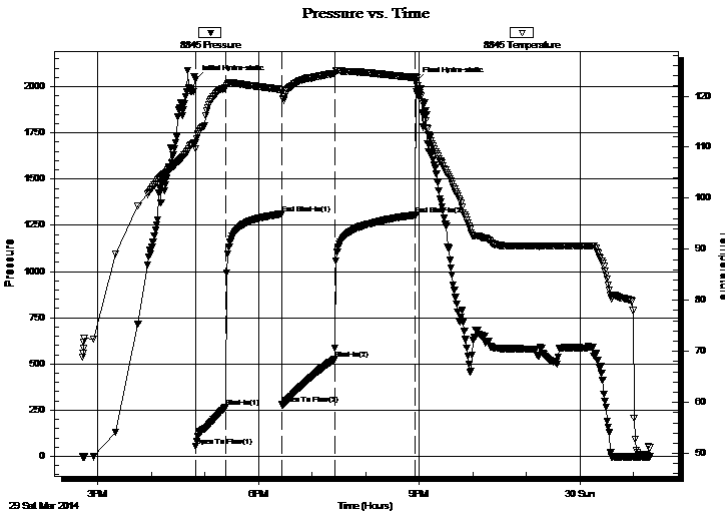
2014.03.29 @ 16:49:30

Time Off Btm:

2014.03.29 @ 20:56:30

TEST COMMENT: IF: BOB @ 2 1/2 min.
ISI Bled off for 6 min. BOB Return @ 16 min.
FF: BOB Immediately.
FSI: Bled off for 6 min. BOB Return @ 14 min.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2038.90	110.88	Initial Hydro-static
1	54.77	109.64	Open To Flow (1)
34	267.67	121.67	Shut-In(1)
97	1311.73	121.30	End Shut-In(1)
97	279.66	120.77	Open To Flow (2)
156	527.52	124.46	Shut-In(2)
246	1305.42	123.59	End Shut-In(2)
247	2027.64	123.85	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1290.00	GO 30g 70o	16.21
0.00	1700' GIP	0.00

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Murfin Drilling Co., Inc.
 250 N Water STE 300
 Wichita, KS 67202
 ATTN: Robert Hendrix

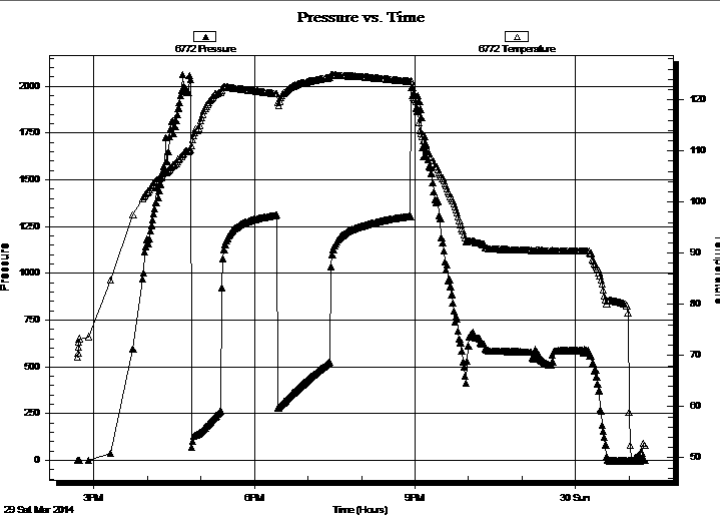
25- 4s- 31w Rawlings, KS
Dellere #1-25
 Job Ticket: 56375 **DST#: 3**
 Test Start: 2014.03.29 @ 14:43:00

GENERAL INFORMATION:

Formation: **LKC " H- J "**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 16:49:45
 Time Test Ended: 01:18:45
 Interval: **4046.00 ft (KB) To 4111.00 ft (KB) (TVD)**
 Total Depth: 4111.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Samuel Esparza
 Unit No: 71
 Reference Elevations: 2910.00 ft (KB)
 2899.00 ft (CF)
 KB to GR/CF: 11.00 ft

Serial #: 6772 Outside
 Press@RunDepth: psig @ 4047.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.03.29 End Date: 2014.03.30 Last Calib.: 2014.03.30
 Start Time: 14:42:05 End Time: 01:18:00 Time On Btm:
 Time Off Btm:

TEST COMMENT: IF: BOB @ 2 1/2 min.
 ISI Bled off for 6 min. BOB Return @ 16 min.
 FF: BOB Immediatly.
 FS: Bled off for 6 min. BOB Return @ 14 min.



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

Recovery		
Length (ft)	Description	Volume (bbl)
1290.00	GO 30g 70o	16.21
0.00	1700' GIP	0.00

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co., Inc.

25- 4s- 31w Rawlings,KS

250 N Water STE 300
Wichita, KS 67202

Dellere #1-25

Job Ticket: 56375

DST#: 3

ATTN: Robert Hendrix

Test Start: 2014.03.29 @ 14:43:00

Tool Information

Drill Pipe:	Length: 3842.00 ft	Diameter: 3.80 inches	Volume: 53.89 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 207.00 ft	Diameter: 2.25 inches	Volume: 1.02 bbl	Weight to Pull Loose: 100000.0 lb
			<u>Total Volume: 54.91 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial 74000.00 lb
Depth to Top Packer:	4046.00 ft			Final 78000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	65.00 ft			
Tool Length:	93.00 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			4019.00	
Shut In Tool	5.00			4024.00	
Hydraulic tool	5.00			4029.00	
Jars	5.00			4034.00	
Safety Joint	3.00			4037.00	
Packer	5.00			4042.00	28.00 Bottom Of Top Packer
Packer	4.00			4046.00	
Stubb	1.00			4047.00	
Recorder	0.00	6772	Outside	4047.00	
Recorder	0.00	8845	Inside	4047.00	
Perforations	26.00			4073.00	
Change Over Sub	1.00			4074.00	
Drill Pipe	31.00			4105.00	
Change Over Sub	1.00			4106.00	
Bullnose	5.00			4111.00	65.00 Bottom Packers & Anchor

Total Tool Length: 93.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co., Inc.

25- 4s- 31w Rawlings,KS

250 N Water STE 300
Wichita, KS 67202

Dellere #1-25

Job Ticket: 56375

DST#: 3

ATTN: Robert Hendrix

Test Start: 2014.03.29 @ 14:43:00

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:

bbl

Water Loss: 5.99 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1000.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1290.00	GO 30g 70o	16.210
0.00	1700' GIP	0.000

Total Length: 1290.00 ft Total Volume: 16.210 bbl

Num Fluid Samples: 0

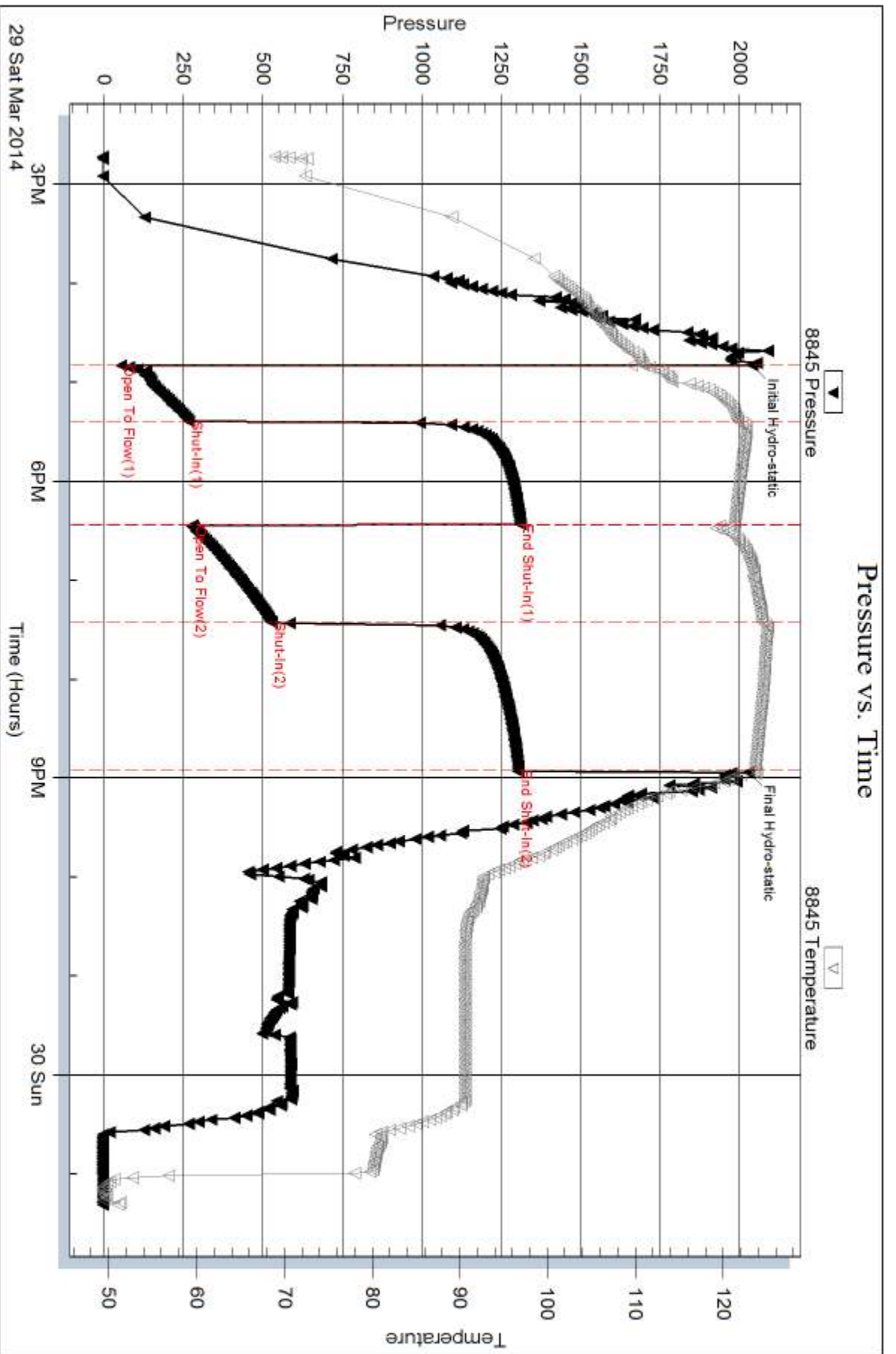
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Oil API: 39 @ 60 degrees= 39 deg API

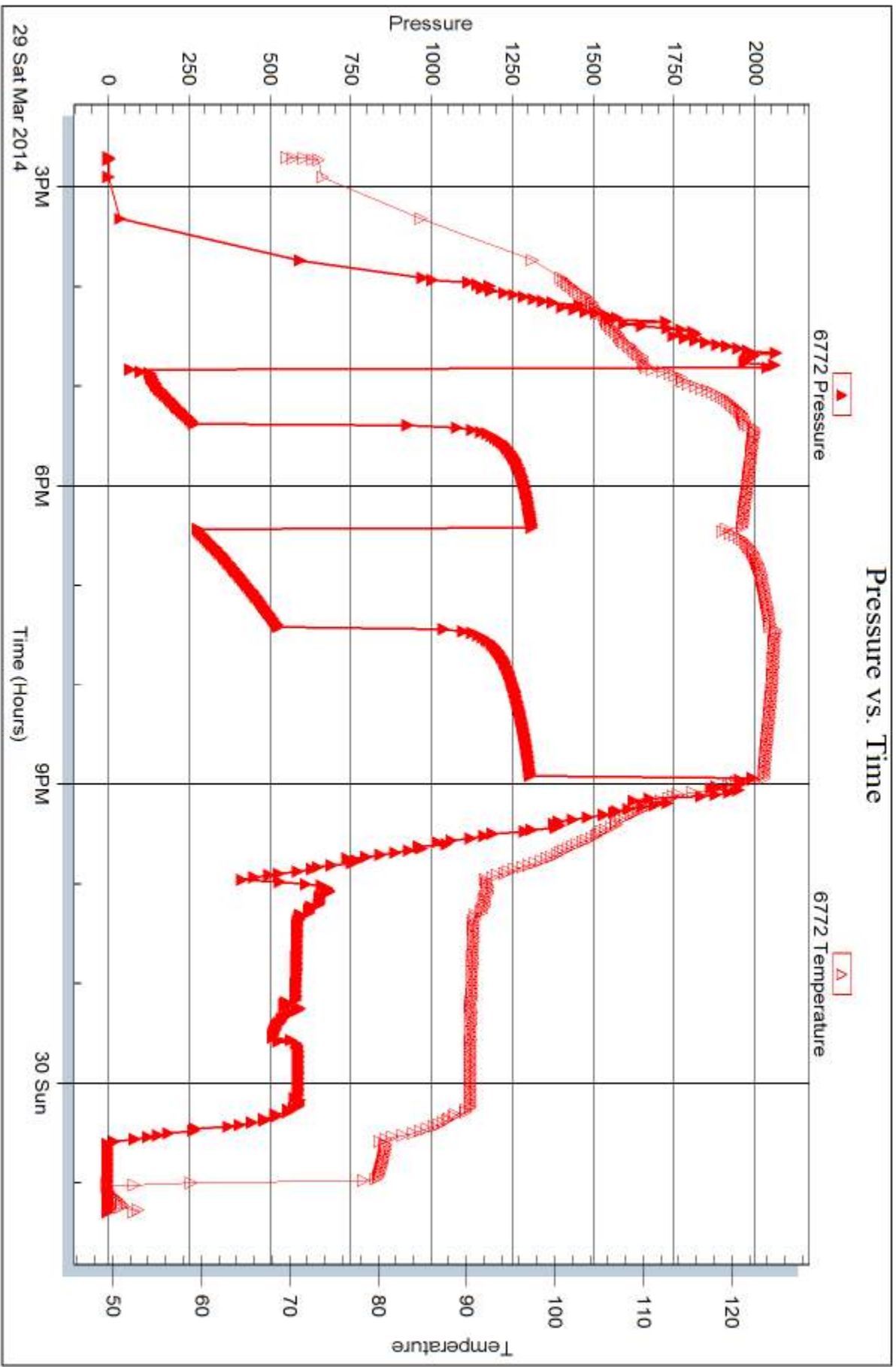


Serial #: 6772

Outside Murfin Drilling Co., Inc.

Delere #1-25

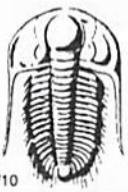
DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 56375

Printed: 2014.04.02 @ 16:22:26



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **56373**

Well Name & No. Dellere #1-25 Test No. 1 Date 3/27/14
 Company Murkin Drilling Co., Inc Elevation 2910 KB 2809 GL
 Address 250 N Water STE 300 Wichita, KS 67202
 Co. Rep / Geo. Robert Hendrix Rig Murkin #2
 Location: Sec. 25 Twp. 4S Rge. 31W Co. Rawlins State KS

Interval Tested 3894-3980 Zone Tested Trento-Lansing "B"
 Anchor Length 86' Drill Pipe Run 3689 Mud Wt. 9.0
 Top Packer Depth 3890 Drill Collars Run 207 Vis 60
 Bottom Packer Depth 3894 Wt. Pipe Run 0 WL 60
 Total Depth 3980 Chlorides 1000 ppm System LCM 4

Blow Description IF: 4 1/2" Blow.
ISF: No Return.
FF: 8 1/4" Blow
FSB: 1/4" Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>140</u>	<u>60CM</u>	<u>10</u>	<u>40</u>	<u>50</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

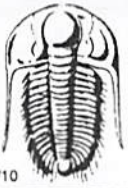
Rec Total 140 BHT 113 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic	<u>1885</u>	<input checked="" type="checkbox"/> Test	<u>1150</u>	T-On Location	<u>21:10</u>
(B) First Initial Flow	<u>16</u>	<input checked="" type="checkbox"/> Jars	<u>250</u>	T-Started	<u>22:08</u>
(C) First Final Flow	<u>43</u>	<input checked="" type="checkbox"/> Safety Joint	<u>75</u>	T-Open	<u>20:22</u>
(D) Initial Shut-In	<u>1158</u>	<input checked="" type="checkbox"/> Circ Sub	<u>N/C</u>	T-Pulled	<u>24:26</u>
(E) Second Initial Flow	<u>52</u>	<input checked="" type="checkbox"/> Hourly Standby		T-Out	<u>06:31</u>
(F) Second Final Flow	<u>79</u>	<input checked="" type="checkbox"/> Mileage	<u>192 R/T</u>	Comments	
(G) Final Shut-In	<u>1117</u>	<input checked="" type="checkbox"/> Sampler	<u>50rt 77.50</u>		
(H) Final Hydrostatic	<u>1287</u>	<input type="checkbox"/> Straddle		<input type="checkbox"/> Ruined Shale Packer	

Initial Open 30 Shale Packer
 Initial Shut-In 60 Extra Packer
 Final Flow 60 Extra Recorder
 Final Shut-In 90 Day Standby
 Accessibility
 Sub Total 1552.50

Approved By [Signature] Our Representative [Signature]

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 56374

Well Name & No. Dellere #1-25 Test No. 2 Date 3/28/14
 Company Murfin Drilling CO., Inc Elevation 2910 KB 2899 GL
 Address 250 N Water STE 300 Wichita, KS 67202
 Co. Rep / Geo. Robert Hendrix Rig Murfin #2
 Location: Sec. 25 Twp. 48 Rge. 31W Co. Rawlins State KS

Interval Tested 3998 - 4023 Zone Tested Lansing "E-R"
 Anchor Length 25' Drill Pipe Run 3783 Mud Wt. 9.1
 Top Packer Depth 3994 Drill Collars Run 207 Vis 57
 Bottom Packer Depth 3988 Wt. Pipe Run 0 WL 5.6
 Total Depth 4023 Chlorides 1000 ppm System LCM 6
 Blow Description EE: 4" Blow died back to weak surface Blow
ESB: No Return
FF: NO Blow
RSD: NO Return

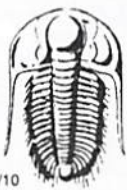
Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>Mud (oil spots)</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 5 BHT 115 Gravity - API RW - @ - °F Chlorides - ppm

(A) Initial Hydrostatic <u>972</u>	<input checked="" type="checkbox"/> Test <u>1250</u>	T-On Location <u>17:00</u>
(B) First Initial Flow <u>12</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>17:20</u>
(C) First Final Flow <u>13</u>	<input type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>19:08</u>
(D) Initial Shut-In <u>366</u>	<input checked="" type="checkbox"/> Circ Sub <u>N/C</u>	T-Pulled <u>22:13</u>
(E) Second Initial Flow <u>18</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>00:10</u>
(F) Second Final Flow <u>18</u>	<input checked="" type="checkbox"/> Mileage <u>192 R/T</u> 77.50	Comments _____
(G) Final Shut-In <u>87</u>	<input type="checkbox"/> Sampler _____	
(H) Final Hydrostatic <u>1931</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>1552.50</u>
	<input type="checkbox"/> Accessibility _____	MP/DST Disc't _____
	Sub Total <u>1552.50</u>	

Approved By [Signature] Our Representative [Signature]

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 56375

Well Name & No. Dellere #1-25 Test No. 3 Date 3/29/14
 Company Murfin Drilling CO., Inc. Elevation 2910 KB 2899 GL
 Address 250 N Water STE 300 Wichita, KS 67202
 Co. Rep / Geo. Robert Hendrix Rig Murfin #2
 Location: Sec. 25 Twp. 4S Rge. 31 W Co. Rawlins State Ks

Interval Tested 4046-4111 Zone Tested Lansing "H-J"
 Anchor Length 65' Drill Pipe Run 3842 Mud Wt. 9.1
 Top Packer Depth 4042 Drill Collars Run 207 Vis 57
 Bottom Packer Depth 4046 Wt. Pipe Run Ø WL 6.0
 Total Depth 4111 Chlorides 1500 ppm System LCM 5

Blow Description IF: BOB @ 2 1/2 min.
TSB: Bled off for 6 min. BOB Return @ 16 min.
FF: BOB Immediately.
FSB: Bled off for 6 min BOB Return @ 14 min.

Rec	Feet of	%gas	%oil	%water	%mud
<u>1290'</u>	<u>60</u>	<u>30</u>	<u>70</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 290' BHT 12.5 Gravity 39 API RW - @ - °F Chlorides - ppm

(A) Initial Hydrostatic <u>2039</u>	<input checked="" type="checkbox"/> Test <u>1250</u>	T-On Location <u>14:30</u>
(B) First Initial Flow <u>55</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>14:43</u>
(C) First Final Flow <u>268</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>16:50</u>
(D) Initial Shut-In <u>1312</u>	<input checked="" type="checkbox"/> Circ Sub <u>USED</u> 50	T-Pulled <u>20:55</u>
(E) Second Initial Flow <u>280</u>	<input checked="" type="checkbox"/> Hourly Standby <u>9 3/4</u>	T-Out <u>01:19</u>
(F) Second Final Flow <u>528</u>	<input checked="" type="checkbox"/> Mileage <u>192 R/T X 2</u>	Comments <u>Gravity: 39 @ 60 = 39</u>
(G) Final Shut-In <u>1305</u>	<input type="checkbox"/> Sampler <u>155</u>	<u>Reversed fluid into truck 8:44</u>
(H) Final Hydrostatic <u>2028</u>	<input type="checkbox"/> Straddle <u>loaded tools @</u>	<input type="checkbox"/> Ruined Shale Packer
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer <u>11:00am 3/31/14</u>	<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>800</u>
Final Shut-In <u>90</u>	<input checked="" type="checkbox"/> Day Standby <u>X 1</u> 1d 9.75h	Total <u>2580</u>
	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1780</u>	

Approved By _____

Our Representative _____

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Robert D. Hendrix

Petroleum Geologist

GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

COMPANY **Murfin Drilling Co. Inc.**

LEASE **Dellere #1-25**

FIELD **Wildcat**

LOCATION **700' Int 8: 900' Int 1**

SEC **25** TWP **4S** RGE **31W**

COUNTY **Rawlins** STATE **Kansas**

CONTRACTOR **Murfin Drilling Co. Rig #2**

SPUD **3/24/2014** COMP **4/2/2014**

RTD **4:40** LTD **4:50**

MUD UP **3:40** TYPE MUD **Chemical**

SAMPLES SAVED FROM **3630 TO TD**

DRILLING TIME KEPT FROM **3630 TO TD**

SAMPLES EXAMINED FROM **3630 TO TD**

GEOLOGICAL SUPERVISION FROM **3652**

GEOLOGIST ON WELL **Robert D. Hendrix**

FORMATION TOPS

ANHYDRITE **2650 (-251)**

TOPEKA **3731 (-821)**

HEEBNER SHALE **3895 (-985)**

LANSING **3942 (-1032)**

STARK SHALE **4110 (-1200)**

BKC **4158 (-1248)**

PAWNEE **4272 (-1362)**

CHEROKEE SHALE **4358 (-1448)**

MISSISSIPPI **4455 (-1545)**

ELEVATIONS

KB **2910**

DF

GL **2899**

Measurements Are All From **Kelly Bushing**

CASING

CONDUITOR SURFACE **8.518" at 225'**

PRODUCTION **5.12" at 4534'**

DUAL INDUCTION NEUTRON DENSITY

MIXING / SINK PROMER WETLINE SYSTEMS

ELECTRIC LOG

SAMPLE

3731 (-821)

3895 (-985)

3942 (-1032)

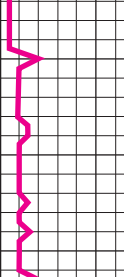
4110 (-1200)

4158 (-1248)

4272 (-1362)

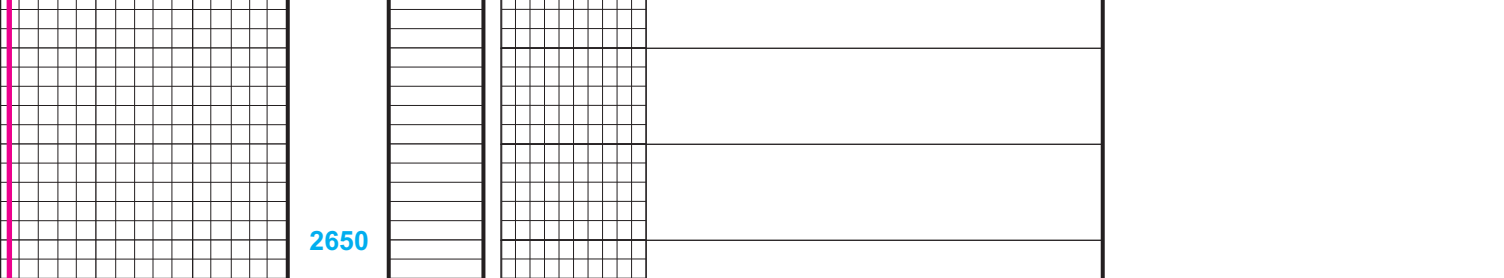
4358 (-1448)

4455 (-1545)



REMARKS:

LEGEND



DEPTH	DRILLING TIME IN MINUTES PER FOOT	LITHOLOGY	SAMPLE DESCRIPTION	REMARKS
2630		Anhydrite		Anhydrite 2660 (+250)
2650		Anhydrite		Base Anhydrite 2693 (+217)
2700		Limestone	Limestone: tan to gray, fxn, sl chalky, si fossiliferous, no vis por	
3600		Limestone	Limestone: tan to brown, fxn, granular, fossiliferous, no vis por	
3652		Limestone	Limestone: tan to white, fxn, sl chalky, fossiliferous, no vis por	Geologist on location at 3652' on 7:30 pm 3/26/2014
3700		Shale	Shale: red, gray, black	
3731		Limestone	Limestone: tan to white, fxn, sl cherty, fossiliferous, no vis por	
3733		Limestone	Limestone: tan to white, fxn, chalky, granular, no vis por	Topeka 3733 (-823)
3750		Shale	Shale: gray, red, black	
3770		Limestone	Limestone: tan to white, f-mxn, v-chalky, fossiliferous, no vis por	
3780		Shale	Shale: red, gray	
3790		Limestone	Limestone: tan to gray, fxn, chalky, sl pyritic, fossiliferous, no vis por	
3800		Shale	Shale: red, gray	
3810		Shale	Shale: red, gray	
3823		Limestone	Limestone: lt gray to tan, fxn, chalky, granular, si fossiliferous, no vis por	
3830		Limestone	Limestone: tan to white, fxn, chalky, granular, no vis por	
3840		Limestone	Limestone: tan, fxn, chalky, silty, sandy, si fossiliferous, no vis por	
3850		Shale	Shale: red, gray, silty	
3860		Sandstone	Sandstone: white, glauconitic, fn gm, rnd, well sorted, semi-frangible, calcareous, pr interxn por	
3870		Shale	Shale: red, muddy, soft	
3880		Limestone	Limestone: tan, fxn, chalky, granular, si fossiliferous, no vis por	
3895		Limestone	Limestone: tan, f-mxn, chalky, si glauconitic, fossiliferous, no vis por	
3900		Shale	Shale: gray, green, red, black	
3910		Limestone	Limestone: tan, m-ixn, chalky, argillaceous, fossiliferous, no vis por	
3920		Shale	Shale: red, gray, green, black	
3930		Limestone	Limestone: white to tan, f-mxn, chalky, oolitic, fossiliferous, pr pp por	
3940		Shale	Shale: gray, red, black	
3950		Limestone	Limestone: tan to white, f-mxn, v-chalky, oolitic, v-fossiliferous, pr interxn por, dark spotty stain, nfo, no odor	
3960		Limestone	Limestone: tan to white, f-mxn, v-chalky, oolitic, fossiliferous, no vis por, ns	
3970		Shale	Shale: black carbonaceous	
3980		Limestone	Limestone: brown to gray, fxn, fossiliferous, no vis por	
3990		Shale	Shale: gray, green, red	
4000		Shale	Shale: red, gray, green	
4010		Limestone	Limestone: tan to white, f-mxn, oolitic in part, fossiliferous, fr interxn por, 20% sample dark black stain, frsfo, faint odor	
4020		Shale	Shale: red, gray, green, black	
4030		Limestone	Limestone: tan, f-mxn, chalky, fossiliferous, pr interxn por, 10% sample black sat stain, prsfo, faint odor	
4040		Shale	Shale: gray, green, soft, sandy	
4050		Shale	Shale: red, gray, black	
4060		Limestone	Limestone: tan to gray, m-ixn, oolitic, fossiliferous, 20% sample gd vug por, black spotty to sat stain, gdsfo, gd odor	
4070		Shale	Shale: red, gray, brown, pyritic	
4080		Limestone	Limestone: lt gray, fxn, sl chalky, dense, no vis por	
4090		Limestone	Limestone: tan to white, fxn, chalky, sl pyritic, sl vug por, 1% sample pr spotty edge stain, sifsfo, no odor	
4100		Shale	Shale: gray, black, red, brown, silty	
4110		Limestone	Limestone: tan to gray, f-mxn, sl chalky, fossiliferous, pr pp por, 1% sample lt spotty stain, sifsfo on break, no odor	
4120		Shale	Shale: red, gray, black	
4130		Limestone	Limestone: white, m-ixn, oolitic, fossiliferous, pr interxn por, 7 pieces black spotty stain, nfo, no odor	
4140		Limestone	Limestone: white to lt gray, fxn, sl chalky, oolitic, no vis por	
4150		Limestone	Limestone: white to tan, fxn, chalky, cherty, si fossiliferous, no vis por, ns	
4160		Shale	Shale: brown, black, red	
4170		Limestone	Limestone: gray, green, fxn, dense, fossiliferous, no vis por	
4180		Shale	Shale: red, gray	
4190		Limestone	Limestone: white, fxn, chalky, oolitic in part, fossiliferous, si interxn por	
4200		Limestone	Limestone: tan to white, fxn, v-chalky, pyritic, no vis por	
4210		Shale	Shale: red, gray	
4220		Limestone	Limestone: white to lt gray, f-mxn, pyritic, oolitic, 5 pieces fr interxn por, lt sat stain, sifsfo on break, no odor	
4230		Limestone	Limestone: white, fxn, dense, pyritic, no vis por, ns	
4240		Shale	Shale: gray, green, red, sandy	
4250		Limestone	Limestone: gray, fxn, sl chalky, dense, no vis por	
4260		Shale	Shale: gray, red, black	
4270		Limestone	Limestone: tan to white, m-ixn, oolitic, pisolitic, v-fossiliferous, fr interxn por, ns	
4280		Shale	Shale: gray, red, black	
4290		Limestone	Limestone: white to tan, f-mxn, chalky, fossiliferous, no vis por	
4300		Shale	Shale: red, brown, gray, silty, sandy	
4310		Shale	Shale: brown, red, gray, silty	
4320		Shale	Shale: red, gray, silty	
4330		Shale	Shale: red, gray, green, black	
4340		Limestone	Limestone: tan to gray, f-mxn, chalky, dense, fossiliferous, no vis por	
4350		Shale	Shale: red, gray, green, brown, black	
4360		Shale	Shale: brown, red, gray, silty	
4370		Shale	Shale: black, brown, gray, red	
4380		Limestone	Limestone: tan to white, f-mxn, chalky, oolitic in part, fossiliferous, no vis por	
4390		Limestone	Limestone: tan to white, f-mxn, chalky, fossiliferous, no vis por	
4400		Shale	Shale: gray, green, red	
4410		Shale	Shale: black and carbonaceous	
4420		Shale	Shale: gray, black, red, brown, silty	
4430		Limestone	Limestone: tan to brown, f-mxn, chalky, oolitic, fossiliferous, no vis por	
4440		Shale	Shale: gray, silty	
4450		Shale	Shale: black and carbonaceous	
4460		Shale	Shale: black, gray	
4470		Limestone	Limestone: brown to white, v-ixn, micro oolitic, dense, fossiliferous, no vis por, ns	
4480		Limestone	Limestone: tan, fxn, sl chalky, dense, no vis por	
4490		Limestone	Limestone: tan to white, fxn, dense, sl chalky, si fossiliferous, scattered sparry calcic inclusions, no vis por, ns	
4500		Shale	Shale: gray, red	
4510		Limestone	Limestone: tan to white, fxn, sl chalky, dense, no vis por, ns	
4520		Shale	Shale: gray, black, red	
4530		Shale	Shale: gray, green, red, brown	
4540		Sandstone	Sandstone: white, lt, glauconitic, fn-vfn gm, rnd, mod sorted, semi-frangible, calcareous, no vis por	
4550		Limestone	Limestone: white to tan, fxn, sl chalky, si fossiliferous, no vis por	
4560		Sandstone	Sandstone: white, glauconitic, fn-md gm, rnd, mod sorted, semi-frangible, calcareous, no vis por	
4570		Shale	Shale: red, gray, green	
4580		Shale	Shale: red, gray, brown, silty	
4590		Sandstone	Sandstone: white, lt, fn gr, md, well sorted, hard, no vis por	
4600		Sandstone	Sandstone: white, lt, fn gr, md, well sorted, hard, no vis por	
4610		Shale	Shale: red, brown, gray, silty, sandy	
4620		Sandstone	Sandstone: white, sl glauconitic, fn gm, rnd, mod sorted, hard, no vis por	
4630		Shale	Shale: red, gray, sandy, silty	
4640		Chert	Chert: white, opaque, small amount tripolitic, 40% weathered, 60% fresh, no vis por	
4650		Chert	Chert: white to yellow, majority lt, mostly fresh, no vis por, ns	
4660		Limestone	Limestone: tan to white, fxn, sl chalky, cherty, dense, no vis por, ns	
4670		Chert	Chert: white to yellow, majority vt, mostly fresh, no vis por, ns	
4680		Dolomite	Dolomite: white, fxn, chalky, cherty, pr interxn por, ns	
4690		Dolomite	Dolomite: white, f-mxn, cherty, fr interxn por, ns	
4700		RTD		RTD 4540 (-1630)

NOTE: Due to high winds the TOH for logs was delayed 4 hours