



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1199794
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: _____

1199794

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

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

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

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

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

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

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

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

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

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

TUBING RECORD:	Size: _____ Set At: _____ Packer At: _____	Liner Run: <input type="checkbox"/> Yes <input type="checkbox"/> No
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Date of First, Resumed Production, SWD or ENHR. _____	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____					
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	Gleason Unit 1-30
Doc ID	1199794

All Electric Logs Run

Dual Induction
Dual Compensated
Microresistivity
Borehole Compensated

Gleason Unit #1-30
Daily Drilling Report
Page Two

- 3/14/14 Depth 4275'. Cut 135'. DT: None. CT: 14¼ hrs. Dev.: None. **DST #2 4120-4226 (LKC A-G):** 30-30-30-30. IF: wk blw died in 5mins. FF: no blw. Rec.: 10'M w/oil spts. HP: 2279-2054. FP: 22/24, 24/26. SIP: 116-70. BHT: 132°. **LKC H:** Ls, lt gry, fn xln, sl foss, sl oolitic, p inter oolitic & inter foss por, scat pp por V SL SFO no odor, scat drk brn stn. **LKC J:** no show. **LKC K:** ls, lt gty, fn xln, sl foss, scat foss cast porosity, asphaltic stn around pores, NSFO. **LKC L:** no shows. **DST #3 4236-4380 (LKC H-L):**
- 3/15/14 Depth 4375'. Cut 100'. DT: None. CT: 16hrs. Dev.: None. **DST #3 4226-4370 (LKC H-L):** 30-60-60-90. IF: fair blow, built to BOB in 20 min. ISI: no blow back. FF: no blw. FSI: no blow back. Rec.: 24'M, 124' WCM (20%W 80%M), 186' MCW (50%M 50%W). HP: 2180-2120. FP: 33/135, 138/213. SIP: 1383-1350. BHT: 137°.
- 3/16/14 Depth 4515'. Cut 140'. DT: None. CT: 12½ hrs. Dev.: None. **Marmaton C:** Ls, gry, fn xln, sl foss, sl oolitic, p inter oolitic porosity, scat foss cast porosity, FRSFO, no odor, scat brn stn. **Pawnee:** Ls crm, fn xln, foss, oolitic, scat inter oolitic porosity, VLSLFO, no odor, scat drk brn stn. **DST #4 4399-4515 (Marmaton C- Pawnee):** 30-60-60-90. IF: fair blow, built to BOB in 20 min. ISI: no blow back. FF: weak blow built to 5". FSI: no blow back. Rec.: 186'GIP, 15' FO, 62' GMCO (5%G 30%M 65%O), 62' GOCM (30%G 15%O 55%M), 120' GMCO (10%G 45%M 45%O). HP: 2248-2145. FP: 23/101, 105/123. SIP: 11177-956. BHT: 139°.
- 3/17/14 RTD: 4700'. Cut 185'. DT: None. CT: 11 ¼ hrs. Dev.: ¼° @ 4700'. TD @ 9:00PM 3/16. Pioneer logged 12:30AM – 6:00AM 3/17. To plug.
- 3/18/14 RTD: 4700'. CT: 14 hrs. Allied plugged hole as follows using 60/40 Poz 4% Gel ¼# Floseal, 25sxs @ 3095', 100sxs @ 2265', 40sxs @ 275', 10sxs @ 40', 30sxs RH, 15sxs @ MH. Started @ 1:00PM, compl @ 5:00PM 3/17. Orders by Bruce Rodie KCC Hays. RR@ 9:00PM 03/17/2014. FINAL REPORT

MDCI Gleason Unit #1-30 2640' FNL 1540' FEL Sec. 30-T1S-R38W 3125' KB							Joseph Strabala Waters #1 1950' FSL 1230' FEL Sec. 32-T1S-R38W 3316' KB	
Formation	Sample top	Datum	Ref	Log Top	Datum	Ref	Log Top	Datum
Anhydrite	3075	+51	-7	3090	+35	-23	3258	+58
B/Anhydrite	3115	+11	-12	3120	+5	-18	3293	+23
Neva	3536	-411	----	3535	-410		-----	-----
Red Eagle	3606	-481	----	3605	-480		-----	-----
Foraker	3660	-535	-19	3658	-533	-17	3832	-516
Topeka	3891	-766	-19	3884	-759	-12	4063	-747
Oread	4018	-893	-13	4017	-892	-12	4196	-880
Lansing	4097	-972	-20	4093	-968	-16	4268	-952
Stark	4314	-1189	-9	4314	-1189	-9	4496	-1180
BKC	4365	-1240	-4	4370	-1245	-9	4552	-1236
Pawnee	4501	-1376	-8	4498	-1373	-5	4684	-1368
Cherokee	4590	-1465	-15	4588	-1463	-13	4766	-1450
Mississippi	DNR			DNR			DNR	-----
RTD	4700	-1575					4800	
LTD				4700	-1575			



INVOICE

acct. Prod-LH

PO Box 93999
Southlake, TX 76092

Invoice Number: 141770
Invoice Date: Mar 7, 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	62512	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-01	Oakley	Mar 7, 2014	4/6/14

Quantity	Item	Description	Unit Price	Amount
1.00	WELL NAME	Gleason Unit #1-30		
215.00	CEMENT MATERIALS	Class A Common	17.90	3,848.50
8.00	CEMENT MATERIALS	Chloride	64.00	512.00
236.25	CEMENT SERVICE	Cubic Feet Charge	2.48	585.90
1,089.00	CEMENT SERVICE	Ton Mileage Charge	2.60	2,831.40
1.00	CEMENT SERVICE	Surface	1,512.25	1,512.25
100.00	CEMENT SERVICE	Pump Truck Mileage	7.70	770.00
1.00	CEMENT SERVICE	Manifold Rental	275.00	275.00
100.00	CEMENT SERVICE	Light Vehicle Mileage	4.40	440.00
1.00	CEMENT SUPERVISOR	LaRene Wentz		
1.00	CEMENT SUPERVISOR	Andrew Forslund		
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

\$ 3,771.26 *3510*

ONLY IF PAID ON OR BEFORE

Apr 1, 2014

Subtotal	10,775.05
Sales Tax	355.38
Total Invoice Amount	11,130.43
Payment/Credit Applied	
TOTAL	11,130.43

OK M

- 3771.26

7359.17

ALLIED OIL & GAS SERVICES, LLC 062512

Federal Tax I.D. # 20-8651475

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

SERVICE POINT:
Dakley, KS

DATE <u>3-7-14</u>	SEC. <u>30</u>	TWP. <u>1</u>	RANGE <u>38</u>	CALLED OUT	ON LOCATION <u>7:30 pm</u>	JOB START <u>11:30 pm</u>	JOB FINISH <u>12:00 AM</u>
LEASE <u>Clinton</u>	WELL# <u>1-30</u>	LOCATION <u>Bird City N to BB, 4W</u>			COUNTY <u>Cherokee</u>	STATE <u>KS</u>	
OLD OR NEW (Circle one) <u>NEW</u>				<u>15, 42 w, 3 into</u>			

CONTRACTOR <u>Murfin 20</u>	OWNER <u>Same</u>
TYPE OF JOB <u>Surface</u>	
HOLE SIZE <u>12 1/4</u>	T.D. <u>225'</u>
CASING SIZE <u>8 7/8</u>	DEPTH <u>224.49'</u>
TUBING SIZE	DEPTH
DRILL PIPE	DEPTH
TOOL	DEPTH
PRES. MAX	MINIMUM
MEAS. LINE	SHOE JOINT
CEMENT LEFT IN CSG. <u>15'</u>	
PERFS.	
DISPLACEMENT <u>13.41</u>	

EQUIPMENT

PUMP TRUCK # <u>431</u>	CEMENTER <u>Lakene Eubank</u>
	HELPER <u>Andrew Forstlund</u>
BULK TRUCK # <u>373/308</u>	DRIVER <u>Adam Flipse</u>
BULK TRUCK # _____	DRIVER _____

CEMENT AMOUNT ORDERED <u>2235Ks com 320cc</u>
COMMON <u>22550 @ 12.90</u> <u>4692.50</u>
POZMIX _____ @ _____ <u>3848.50</u>
GEL _____ @ _____
CHLORIDE <u>8 cc @ 64.00</u> <u>512.00</u>
ASC _____ @ _____
HANDLING <u>236.25 @ 2.48</u> <u>585.90</u>
MILEAGE <u>1089/100 X 2.60</u> <u>2831.40</u>
TOTAL <u>7772.80</u>

REMARKS:
MIX 2255Ks cement
Displace with water
Cement did circulate

Frank Ryan

CHARGE TO: Murfin

STREET _____

CITY _____ STATE _____ ZIP _____

SERVICE

DEPTH OF JOB <u>224.49'</u>
PUMP TRUCK CHARGE _____ <u>1512.23</u>
EXTRA FOOTAGE _____ @ _____
MILEAGE <u>MTHV 100 @ 2.90</u> <u>290.00</u>
MANIFOLD <u>MFLV 100 @ 4.40</u> <u>440.00</u>
TOTAL <u>2977.25</u>

PLUG & FLOAT EQUIPMENT

_____ @ _____
_____ @ _____
_____ @ _____
_____ @ _____
_____ @ _____
_____ @ _____
TOTAL _____

To: Allied Oil & Gas Services, LLC.
You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME AREG CONDREN

SIGNATURE AREG CONDREN

SALES TAX (If Any) _____

TOTAL CHARGES 10,775.05

DISCOUNT 3,771.26 IF PAID IN 30 DAYS

7,003.78 Net.



PO Box 93999
Southlake, TX 76092

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

INVOICE

acct Prod-LH

Invoice Number: 142043

Invoice Date: Mar 17, 2014

Page: 1

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

Customer ID	Field Ticket #	Payment Terms	
Murfin	62516	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-03	Oakley	Mar 17, 2014	4/16/14

Quantity	Item	Description	Unit Price	Amount
1.00	WELL NAME	Gleason Unit #1-30		
132.00	CEMENT MATERIALS	Class A Common	17.90	2,362.80
88.00	CEMENT MATERIALS	Pozmix	9.35	822.80
8.00	CEMENT MATERIALS	Gel	23.40	187.20
55.00	CEMENT MATERIALS	Flo Seal	2.97	163.35
236.29	CEMENT SERVICE	Cubic Feet Charge	2.48	586.00
987.00	CEMENT SERVICE	Ton Mileage Charge	2.60	2,566.20
1.00	CEMENT SERVICE	Plug to Abandon	2,600.47	2,600.47
100.00	CEMENT SERVICE	Pump Truck Mileage	7.70	770.00
100.00	CEMENT SERVICE	Light Vehicle Mileage	4.40	440.00
1.00	EQUIPMENT SALES	8-5/8 Wooden Plug	107.64	107.64
1.00	CEMENT SUPERVISOR	LaRene Wentz		
1.00	CEMENT SUPERVISOR	Andrew Forslund		
1.00	OPERATOR ASSISTANT	Brandon Wilkinson		

Subtotal	10,606.46
Sales Tax	864.43
Total Invoice Amount	11,470.89
Payment/Credit Applied	
TOTAL	11,470.89

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

\$ 3,674.58

ONLY IF PAID ON OR BEFORE
Apr 11, 2014

-3674.58
7796.31

OK MSR

ALLIED OIL & GAS SERVICES, LLC 062516

Federal Tax I.D. # 20-8651475

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

SERVICE POINT: Dakota, KS

DATE <u>3-17-14</u>	SEC. <u>30</u>	TWP. <u>1</u>	RANGE <u>38</u>	CALLED OUT	ON LOCATION <u>1120am</u>	JOB START <u>3:30pm</u>	JOB FINISH <u>4:30pm</u>
LEASE <u>Lease</u>	WELL # <u>1-30</u>	LOCATION <u>Bird City N to BB, 4W,</u>			COUNTY <u>McPherson, KS</u>	STATE <u>KS</u>	
OLD OR NEW (Circle one) <u>NEW</u>				<u>15, 1/2 W, Sinto</u>			

CONTRACTOR Murfin 20 OWNER same

TYPE OF JOB PTA

HOLE SIZE 7 7/8 TD. 4700 CEMENT AMOUNT ORDERED 220 sks 60/40 cement

CASING SIZE DEPTH Vcl # 16-5-20

TUBING SIZE DEPTH

DRILL PIPE 4 1/2 DEPTH 80951

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG.

PERFS.

DISPLACEMENT 40.46 bbl

EQUIPMENT

PUMP TRUCK CEMENTER Lakone & Wentz

431 HELPER Andrew Forslund

BULK TRUCK

818/287 DRIVER Brandon Wilkinson

BULK TRUCK

DRIVER

COMMON 132 sks @ 19.90 2628.00

POZMIX 28 sks @ 9.35 261.80

GEL 8 sks @ 23.90 182.20

CHLORIDE @

ASC @

Flowed @

55 sks @ 2.99 163.35

@

@

@

@

@

HANDLING 236.22 sks @ 2.48 586.00

MILEAGE 8.87 hrs @ 100 x 2.60 2306.20

TOTAL 6688.35

REMARKS:

Mix 25 sks 30751
Mix 100 sks 22671
Mix 40 sks 2751
Mix 10 sks 40' w/ plug
Mix 15 sks MH.
Mix 20 sks R.H.

Thank you

CHARGE TO: Murfin Drilling Co

STREET

CITY STATE ZIP

SERVICE

DEPTH OF JOB 30951

PUMP TRUCK CHARGE 2660.47

EXTRA FOOTAGE @

MILEAGE MURF 100 @ 2.70 270.00

MANIFOLD @

MURF 100 @ 4.90 490.00

@

TOTAL 3810.47

PLUG & FLOAT EQUIPMENT

wooden plug @ 167.64

@

@

@

@

TOTAL 167.64

To: Allied Oil & Gas Services, LLC.
You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME GREG Cochran

SIGNATURE [Signature]

SALES TAX (If Any)

TOTAL CHARGES 10,606.46

DISCOUNT 3,674.58 IF PAID IN 30 DAYS

6,931.87 Net.



DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling**

250 N. Water Ste. 300
Wichita KS 67202

ATTN: Steve Miler

Gleason Unit #1-30

30 1s 28w Cheyenne,KS

Start Date: 2014.03.12 @ 12:45:00

End Date: 2014.03.12 @ 19:45:00

Job Ticket #: 56805 DST #: 1

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

Printed: 2014.03.20 @ 17:26:08



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling
250 N. Water Ste. 300
Wichita KS 67202
ATTN: Steve Miller

30 1s 28w Cheyenne, KS

Gleason Unit #1-30

Job Ticket: 56805 **DST#: 1**
Test Start: 2014.03.12 @ 12:45:00

GENERAL INFORMATION:

Formation: **Oread**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 14:56:30
Time Test Ended: 19:45:00
Interval: **3986.00 ft (KB) To 4030.00 ft (KB) (TVD)**
Total Depth: 4030.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good
Test Type: Conventional Bottom Hole (Reset)
Tester: Chuck Kreuzer Jr.
Unit No: 61
Reference Elevations: 3127.00 ft (KB)
3115.00 ft (CF)
KB to GR/CF: 12.00 ft

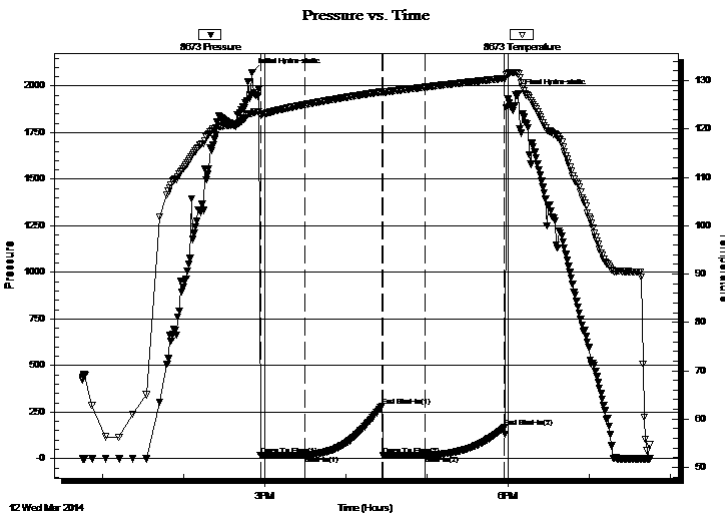
Serial #: 8673

Inside

Press@RunDepth: 18.93 psig @ 3987.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2014.03.12 End Date: 2014.03.12 Last Calib.: 2014.03.12
Start Time: 12:45:05 End Time: 19:44:59 Time On Btm: 2014.03.12 @ 14:50:30
Time Off Btm: 2014.03.12 @ 18:07:30

TEST COMMENT: IF: Weak surface blow, Dead in 20 mins.
IS: No blow back.
FF: No blow.
FS: No blow back.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2073.32	123.24	Initial Hydro-static
6	17.50	123.04	Open To Flow (1)
39	18.51	125.06	Shut-In(1)
96	281.97	127.71	End Shut-In(1)
97	18.40	127.64	Open To Flow (2)
128	18.93	128.67	Shut-In(2)
187	166.38	130.49	End Shut-In(2)
197	1959.87	131.36	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	ocm-25%o75%m	0.02

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling
250 N. Water Ste. 300
Wichita KS 67202
ATTN: Steve Miller

30 1s 28w Cheyenne,KS
Gleason Unit #1-30
Job Ticket: 56805 **DST#: 1**
Test Start: 2014.03.12 @ 12:45:00

Tool Information

Drill Pipe:	Length: 3794.00 ft	Diameter: 3.80 inches	Volume: 53.22 bbl	Tool Weight:	2400.00 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: 183.00 ft	Diameter: 2.25 inches	Volume: 0.90 bbl	Weight to Pull Loose:	80000.00 lb
			<u>Total Volume: 54.12 bbl</u>	Tool Chased	2.00 ft
Drill Pipe Above KB:	19.00 ft			String Weight: Initial	64000.00 lb
Depth to Top Packer:	3986.00 ft			Final	64000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	44.00 ft				
Tool Length:	72.00 ft				
Number of Packers:	2	Diameter:	6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3963.00	
Hydraulic tool	5.00			3968.00	
Jars	5.00			3973.00	
Safety Joint	3.00			3976.00	
Packer	5.00			3981.00	28.00 Bottom Of Top Packer
Packer	5.00			3986.00	
Stubb	1.00			3987.00	
Recorder	0.00	8673	Inside	3987.00	
Recorder	0.00	8651	Outside	3987.00	
Perforations	1.00			3988.00	
change Over Sub	1.00			3989.00	
Blank Spacing	32.00			4021.00	
Change Over Sub	1.00			4022.00	
Perforations	5.00			4027.00	
Bullnose	3.00			4030.00	44.00 Bottom Packers & Anchor

Total Tool Length: 72.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling

30 1s 28w Cheyenne,KS

250 N. Water Ste. 300
Wichita KS 67202

Gleason Unit #1-30

Job Ticket: 56805

DST#: 1

ATTN: Steve Miller

Test Start: 2014.03.12 @ 12:45:00

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: 80.00 sec/qt

Cushion Volume:

bbf

Water Loss: 5.59 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 500.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
5.00	ocm-25%o75%m	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbf

Num Fluid Samples: 0

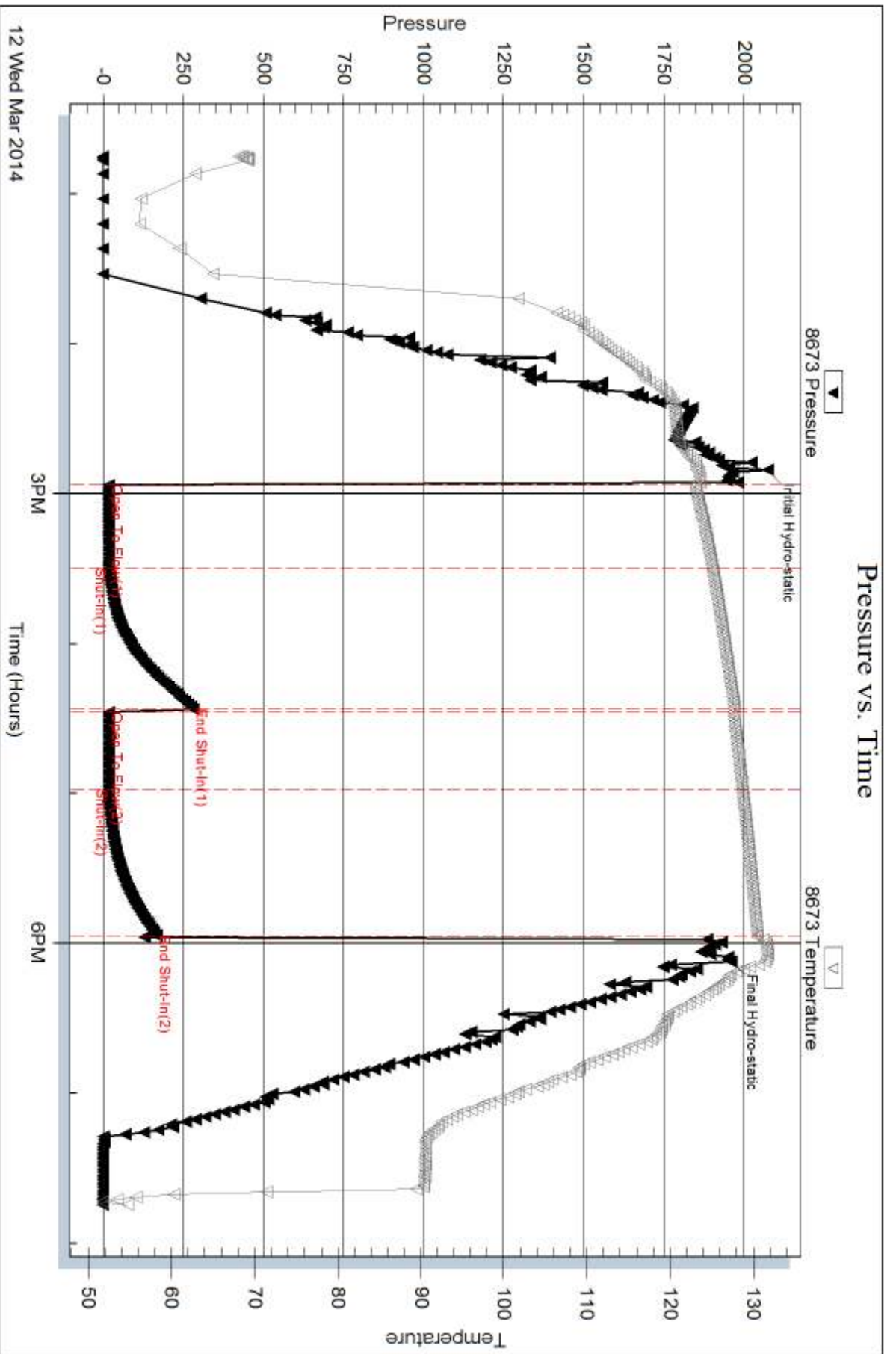
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

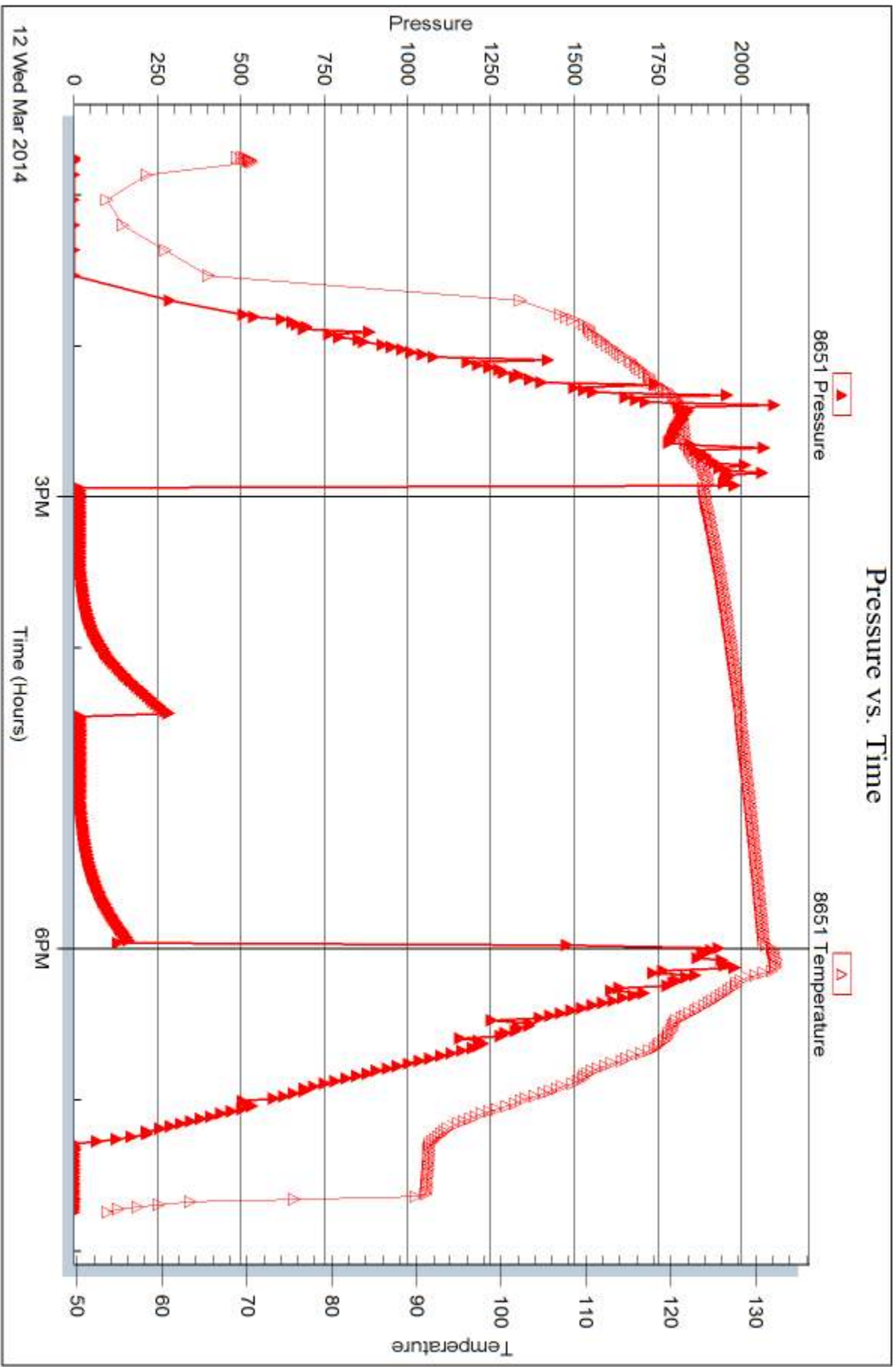


Serial #: 8651

Outside Murfin Drilling

Geason Unit #1-30

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 56805

Printed: 2014.03.20 @ 17:26:11



DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling**

250 N. Water Ste. 300
Wichita KS 67202

ATTN: Steve Miler

Gleason Unit #1-30

30 1s 28w Cheyenne,KS

Start Date: 2014.03.13 @ 17:50:00

End Date: 2014.03.13 @ 23:18:30

Job Ticket #: 56806 DST #: 2

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

Printed: 2014.03.20 @ 17:25:46



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling
250 N. Water Ste. 300
Wichita KS 67202
ATTN: Steve Miller

30 1s 28w Cheyenne, KS

Gleason Unit #1-30

Job Ticket: 56806 **DST#: 2**
Test Start: 2014.03.13 @ 17:50:00

GENERAL INFORMATION:

Formation: **LKC-D-G**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 19:28:30
Time Test Ended: 23:18:30
Interval: **4120.00 ft (KB) To 4226.00 ft (KB) (TVD)**
Total Depth: 4226.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good
Test Type: Conventional Bottom Hole (Reset)
Tester: Chuck Kreuzer Jr.
Unit No: 61
Reference Elevations: 3127.00 ft (KB)
3115.00 ft (CF)
KB to GR/CF: 12.00 ft

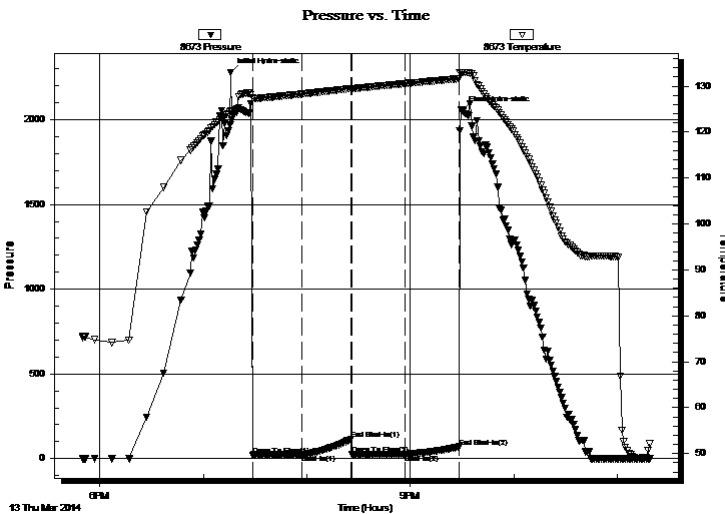
Serial #: 8673

Inside

Press@RunDepth: 25.54 psig @ 4121.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2014.03.13 End Date: 2014.03.13 Last Calib.: 2014.03.13
Start Time: 17:50:05 End Time: 23:18:29 Time On Btm: 2014.03.13 @ 19:16:00
Time Off Btm: 2014.03.13 @ 21:30:00

TEST COMMENT: IF: Weak blow , Dead in 5 mins.
IS: No blow back
FF: No blow
FS: No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2279.33	124.62	Initial Hydro-static
13	21.78	127.39	Open To Flow (1)
41	24.06	128.29	Shut-In(1)
70	116.11	129.49	End Shut-In(1)
70	23.81	129.46	Open To Flow (2)
101	25.54	130.56	Shut-In(2)
132	70.10	131.63	End Shut-In(2)
134	2053.91	132.98	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	mud w ith oil spots	0.05

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling
250 N. Water Ste. 300
Wichita KS 67202
ATTN: Steve Miler

30 1s 28w Cheyenne,KS
Gleason Unit #1-30
Job Ticket: 56806 **DST#: 2**
Test Start: 2014.03.13 @ 17:50:00

Tool Information

Drill Pipe:	Length: 3923.00 ft	Diameter: 3.80 inches	Volume: 55.03 bbl	Tool Weight: 2400.00 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: 183.00 ft	Diameter: 2.25 inches	Volume: 0.90 bbl	Weight to Pull Loose: 64000.00 lb
			<u>Total Volume: 55.93 bbl</u>	Tool Chased 2.00 ft
Drill Pipe Above KB:	14.00 ft			String Weight: Initial 64000.00 lb
Depth to Top Packer:	4120.00 ft			Final 64000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	106.00 ft			
Tool Length:	134.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

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

Shut In Tool	5.00			4097.00	
Hydraulic tool	5.00			4102.00	
Jars	5.00			4107.00	
Safety Joint	3.00			4110.00	
Packer	5.00			4115.00	28.00 Bottom Of Top Packer
Packer	5.00			4120.00	
Stubb	1.00			4121.00	
Recorder	0.00	8673	Inside	4121.00	
Recorder	0.00	8651	Outside	4121.00	
Perforations	6.00			4127.00	
change Over Sub	1.00			4128.00	
Drill Pipe	94.00			4222.00	
Change Over Sub	1.00			4223.00	
Bullnose	3.00			4226.00	106.00 Bottom Packers & Anchor

Total Tool Length: 134.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling
250 N. Water Ste. 300
Wichita KS 67202
ATTN: Steve Miller

30 1s 28w Cheyenne,KS
Gleason Unit #1-30
Job Ticket: 56806 **DST#: 2**
Test Start: 2014.03.13 @ 17:50:00

Mud and Cushion Information

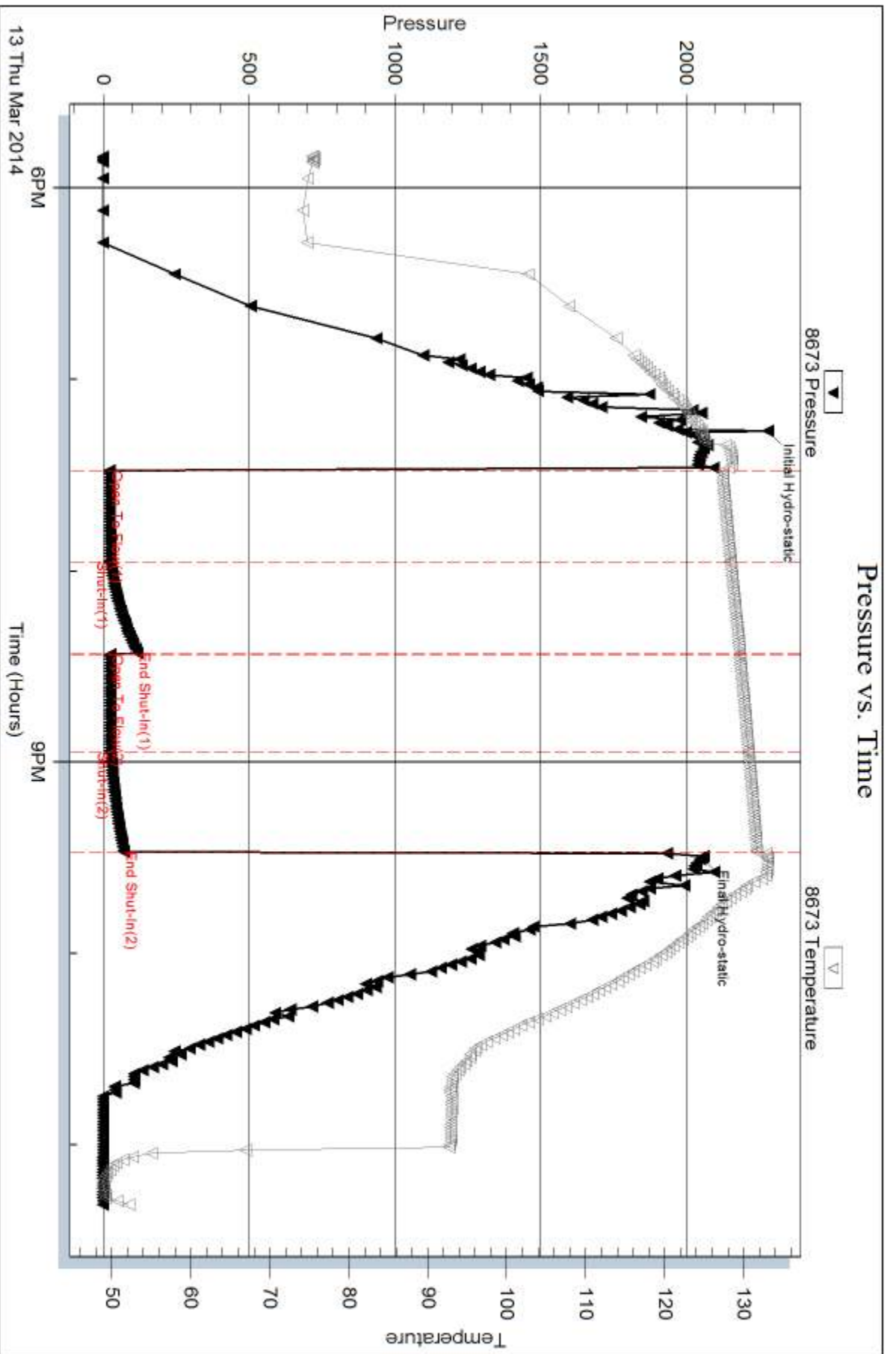
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 55.00 sec/qt	Cushion Volume: bbl		
Water Loss: 5.99 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 500.00 ppm			
Filter Cake: 2.00 inches			

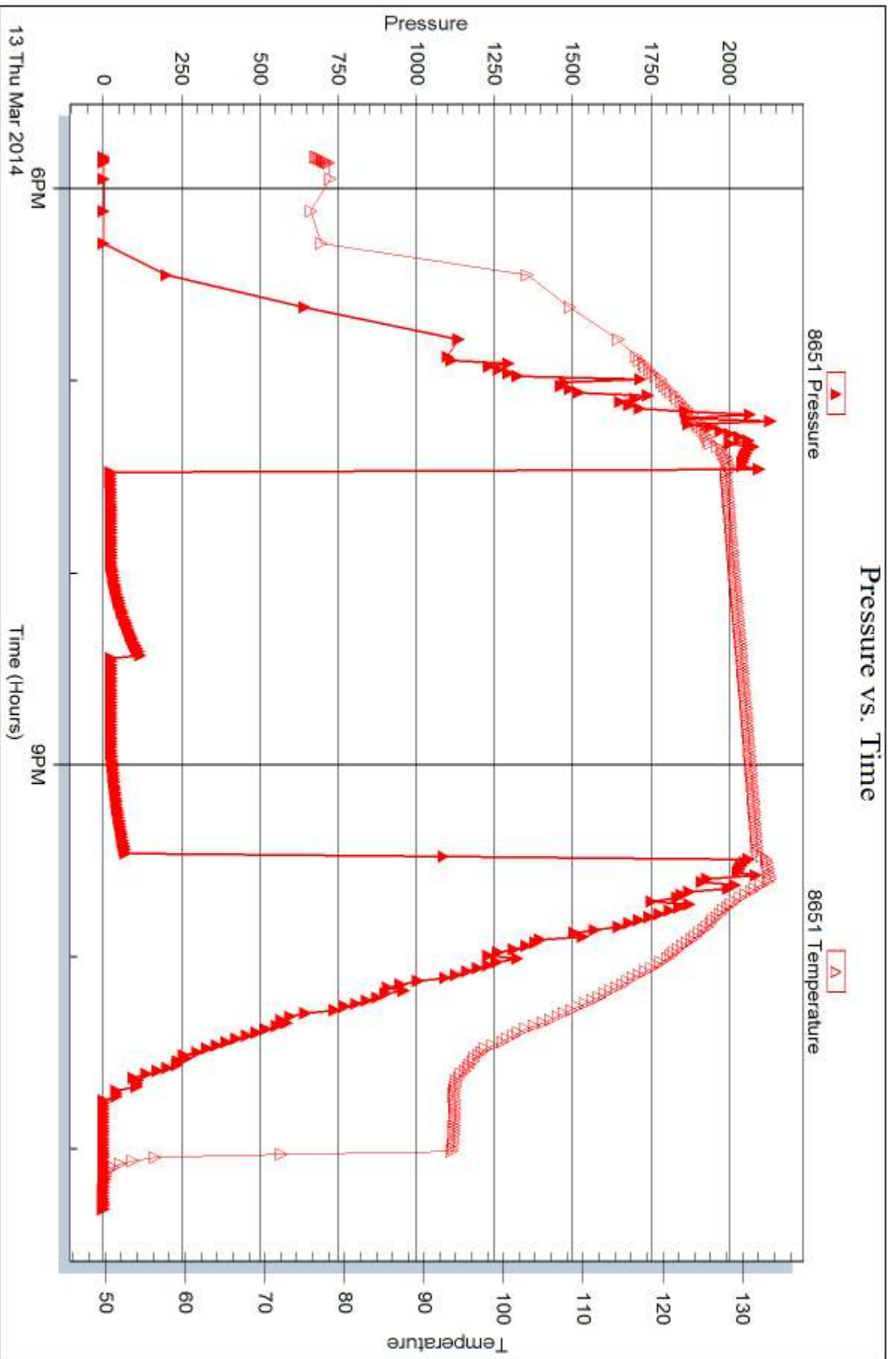
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	mud w ith 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:







DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling**

250 N. Water Ste. 300
Wichita KS 67202

ATTN: Steve Miler

Gleason Unit #1-30

30 1s 28w Cheyenne,KS

Start Date: 2014.03.14 @ 19:45:00

End Date: 2014.03.15 @ 03:41:00

Job Ticket #: 56807 DST #: 3

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

Printed: 2014.03.20 @ 17:25:23



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Murfin Drilling
 250 N. Water Ste. 300
 Wichita KS 67202
 ATTN: Steve Miller

30 1s 28w Cheyenne,KS

Gleason Unit #1-30

Job Ticket: 56807 **DST#: 3**
 Test Start: 2014.03.14 @ 19:45:00

GENERAL INFORMATION:

Formation: **LKC-H-K**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 21:38:30
 Time Test Ended: 03:41:00
 Interval: **4236.00 ft (KB) To 4380.00 ft (KB) (TVD)**
 Total Depth: 4380.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Chuck Kreuzer Jr.
 Unit No: 61
 Reference Elevations: 3127.00 ft (KB)
 3115.00 ft (CF)
 KB to GR/CF: 12.00 ft

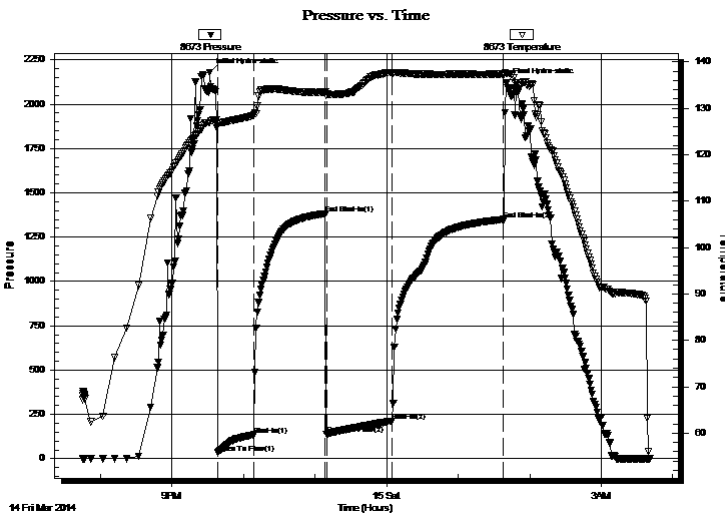
Serial #: 8673

Inside

Press@RunDepth: 212.92 psig @ 4237.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.03.14 End Date: 2014.03.15 Last Calib.: 2014.03.15
 Start Time: 19:45:05 End Time: 03:40:59 Time On Btm: 2014.03.14 @ 21:31:30
 Time Off Btm: 2014.03.15 @ 01:40:30

TEST COMMENT: IF: Fair blow , built to B.O.B in 20 mins.
 IS: No blow back
 FF: No blow
 FS: No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2179.77	126.93	Initial Hydro-static
7	33.05	126.87	Open To Flow (1)
37	134.68	128.58	Shut-In(1)
97	1383.12	133.46	End Shut-In(1)
98	138.15	132.85	Open To Flow (2)
153	212.92	137.57	Shut-In(2)
247	1350.38	137.37	End Shut-In(2)
249	2120.10	137.41	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
186.00	mcw -50% m50% w	0.94
124.00	w cm-20% w 80% m	1.74
124.00	mud-100%	1.74

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling
250 N. Water Ste. 300
Wichita KS 67202
ATTN: Steve Miller

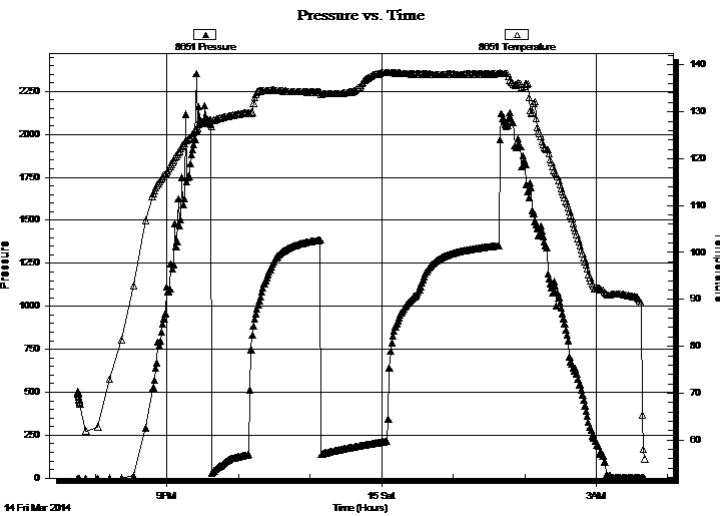
30 1s 28w Cheyenne,KS
Gleason Unit #1-30
Job Ticket: 56807 **DST#: 3**
Test Start: 2014.03.14 @ 19:45:00

GENERAL INFORMATION:

Formation: **LKC-H-K**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 21:38:30
Time Test Ended: 03:41:00
Interval: **4236.00 ft (KB) To 4380.00 ft (KB) (TVD)**
Total Depth: 4380.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good
Test Type: Conventional Bottom Hole (Reset)
Tester: Chuck Kreutzer Jr.
Unit No: 61
Reference Elevations: 3127.00 ft (KB)
3115.00 ft (CF)
KB to GR/CF: 12.00 ft

Serial #: 8651 Outside
Press@RunDepth: psig @ 4237.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2014.03.14 End Date: 2014.03.15 Last Calib.: 2014.03.15
Start Time: 19:45:05 End Time: 03:40:59 Time On Btm:
Time Off Btm:

TEST COMMENT: IF: Fair blow , built to B.O.B in 20 mins.
IS: No blow back
FF: No blow
FS: No blow back



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
186.00	mcw -50% m50%w	0.94
124.00	w cm-20%w 80%m	1.74
124.00	mud-100%	1.74

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling
250 N. Water Ste. 300
Wichita KS 67202
ATTN: Steve Miler

30 1s 28w Cheyenne,KS
Gleason Unit #1-30
Job Ticket: 56807 **DST#: 3**
Test Start: 2014.03.14 @ 19:45:00

Tool Information

Drill Pipe:	Length: 4055.00 ft	Diameter: 3.80 inches	Volume: 56.88 bbl	Tool Weight: 2400.00 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: 183.00 ft	Diameter: 2.25 inches	Volume: 0.90 bbl	Weight to Pull Loose: 84000.00 lb
			<u>Total Volume: 57.78 bbl</u>	Tool Chased 2.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 80000.00 lb
Depth to Top Packer:	4236.00 ft			Final 82000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	144.00 ft			
Tool Length:	172.00 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
Shut In Tool	5.00			4213.00	
Hydraulic tool	5.00			4218.00	
Jars	5.00			4223.00	
Safety Joint	3.00			4226.00	
Packer	5.00			4231.00	28.00 Bottom Of Top Packer
Packer	5.00			4236.00	
Stubb	1.00			4237.00	
Recorder	0.00	8673	Inside	4237.00	
Recorder	0.00	8651	Outside	4237.00	
Perforations	10.00			4247.00	
change Over Sub	1.00			4248.00	
Drill Pipe	124.00			4372.00	
Change Over Sub	1.00			4373.00	
Perforations	4.00			4377.00	
Bullnose	3.00			4380.00	144.00 Bottom Packers & Anchor

Total Tool Length: 172.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling
250 N. Water Ste. 300
Wichita KS 67202
ATTN: Steve Miller

30 1s 28w Cheyenne,KS
Gleason Unit #1-30
Job Ticket: 56807 **DST#: 3**
Test Start: 2014.03.14 @ 19:45:00

Mud and Cushion Information

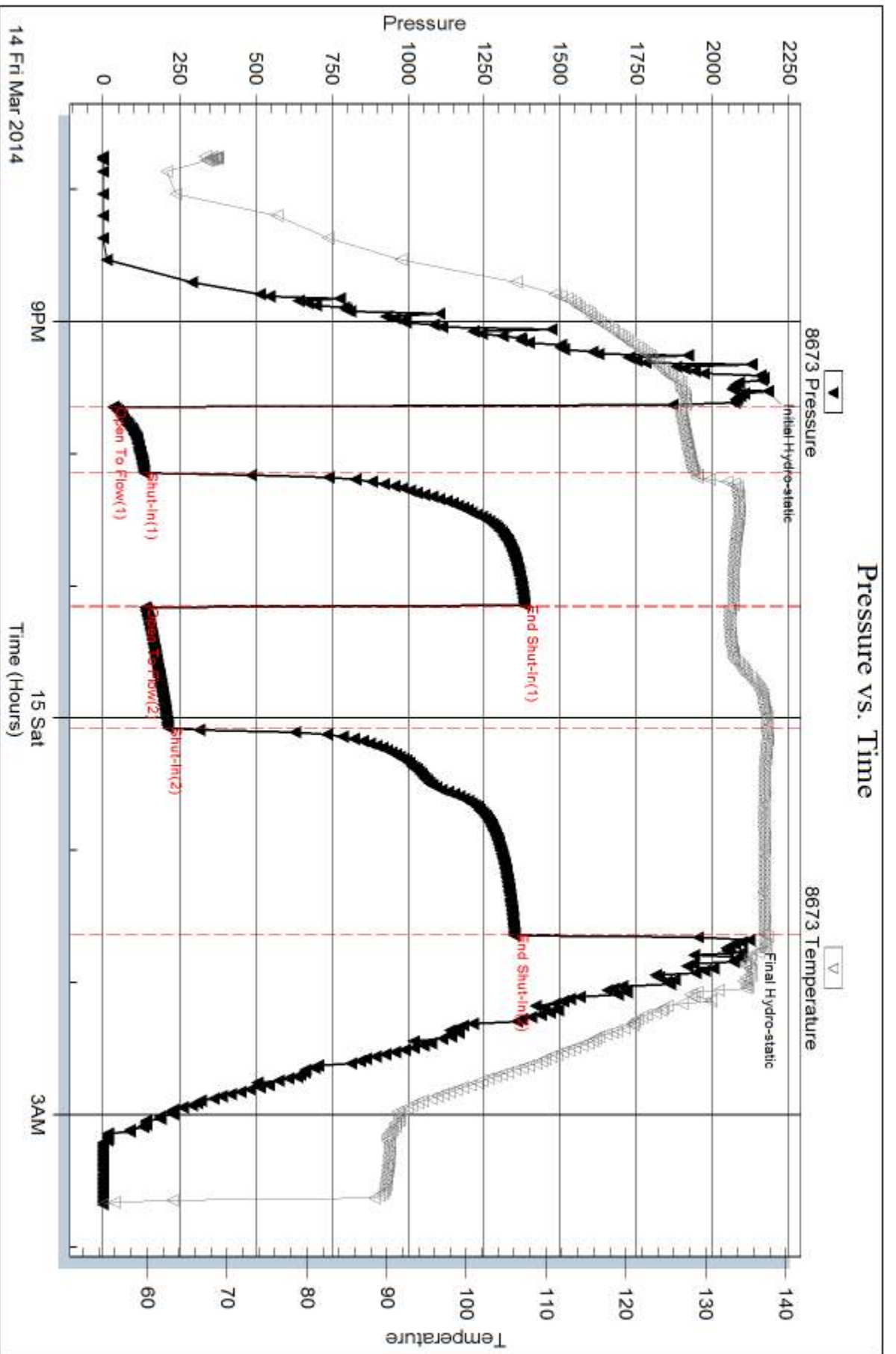
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 55.00 sec/qt	Cushion Volume: bbl		
Water Loss: 5.99 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 500.00 ppm			
Filter Cake: 2.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
186.00	mcw -50% m50%w	0.942
124.00	w cm-20%w 80%m	1.739
124.00	mud-100%	1.739

Total Length: 434.00 ft Total Volume: 4.420 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

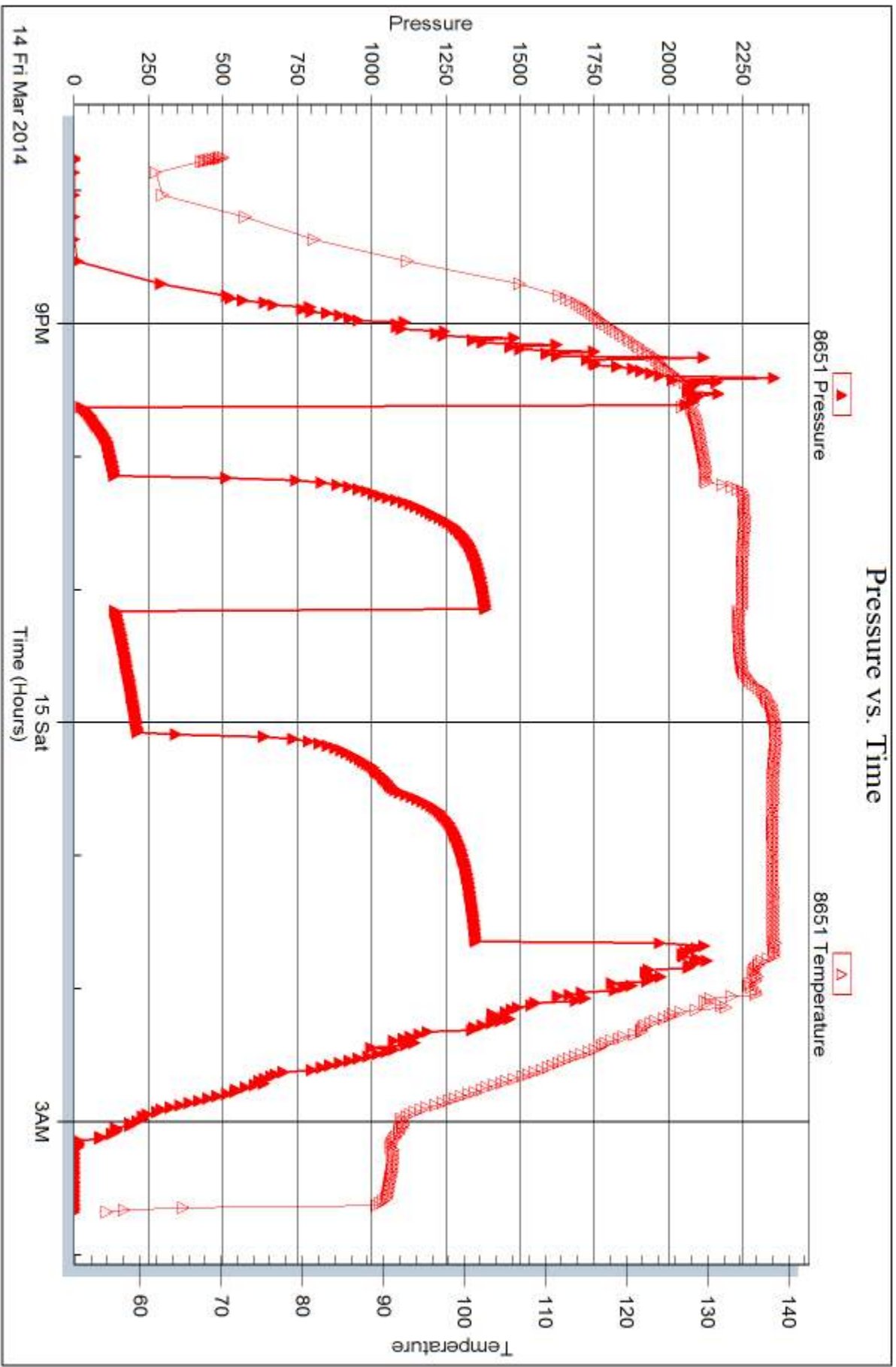


Serial #: 8651

Outside Murfin Drilling

Geason Unit #1-30

DST Test Number: 3



Triobite Testing, Inc

Ref. No: 56807

Printed: 2014.03.20 @ 17:25:25



DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling**

250 N. Water Ste. 300
Wichita KS 67202

ATTN: Steve Miler

Gleason Unit #1-30

30 1s 28w Cheyenne,KS

Start Date: 2014.03.15 @ 21:45:00

End Date: 2014.03.16 @ 05:08:00

Job Ticket #: 56808 DST #: 4

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

Printed: 2014.03.20 @ 17:20:32



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling
250 N. Water Ste. 300
Wichita KS 67202
ATTN: Steve Miller

30 1s 28w Cheyenne, KS

Gleason Unit #1-30

Job Ticket: 56808 **DST#: 4**
Test Start: 2014.03.15 @ 21:45:00

GENERAL INFORMATION:

Formation: **Pawnee**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 23:50:30
Time Test Ended: 05:08:00
Interval: **4399.00 ft (KB) To 4515.00 ft (KB) (TVD)**
Total Depth: 4515.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good
Test Type: Conventional Bottom Hole (Reset)
Tester: Chuck Kreuzer Jr.
Unit No: 61
Reference Elevations: 3127.00 ft (KB)
3115.00 ft (CF)
KB to GR/CF: 12.00 ft

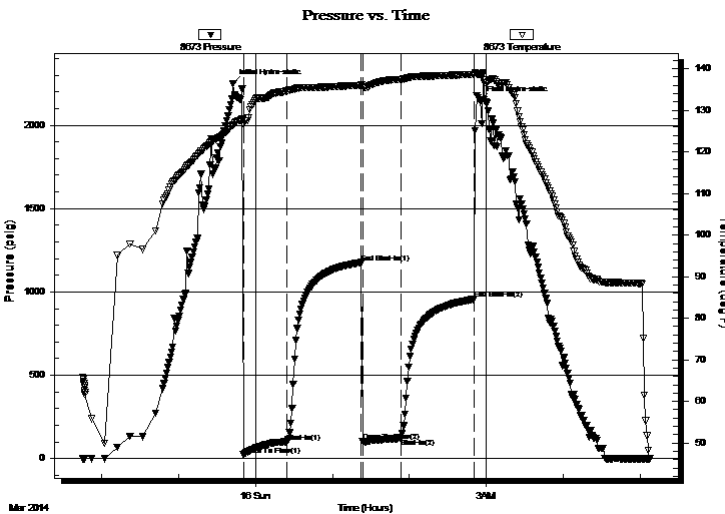
Serial #: 8673

Inside

Press@RunDepth: 122.60 psig @ 4400.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2014.03.15 End Date: 2014.03.16 Last Calib.: 2014.03.16
Start Time: 21:45:05 End Time: 05:07:59 Time On Btm: 2014.03.15 @ 23:42:30
Time Off Btm: 2014.03.16 @ 02:55:30

TEST COMMENT: IF: Fair blow , Built to B.O.B in 20 mins.
IS: No blow back.
FF: Weak blow , Built to 5 in. over 30 mins.
FS: No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2247.80	126.45	Initial Hydro-static
8	23.32	126.53	Open To Flow (1)
42	101.33	134.69	Shut-In(1)
100	1176.66	136.05	End Shut-In(1)
101	104.47	135.65	Open To Flow (2)
131	122.60	137.44	Shut-In(2)
188	956.47	138.66	End Shut-In(2)
193	2144.53	138.60	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	gmco-10%g45%m45%o	0.59
62.00	gocm-30%g15%o55%m	0.30
62.00	gmco-5%g30%m65%o	0.86
15.00	oil	0.21
0.00	186 ft. gas in pipe	0.00

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling
250 N. Water Ste. 300
Wichita KS 67202
ATTN: Steve Miller

30 1s 28w Cheyenne,KS
Gleason Unit #1-30
Job Ticket: 56808 **DST#: 4**
Test Start: 2014.03.15 @ 21:45:00

Tool Information

Drill Pipe:	Length: 4203.00 ft	Diameter: 3.80 inches	Volume: 58.96 bbl	Tool Weight: 2400.00 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: 183.00 ft	Diameter: 2.25 inches	Volume: 0.90 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 59.86 bbl</u>	Tool Chased 2.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 68000.00 lb
Depth to Top Packer:	4399.00 ft			Final 68000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	116.00 ft			
Tool Length:	144.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Shut In Tool	5.00			4376.00	
Hydraulic tool	5.00			4381.00	
Jars	5.00			4386.00	
Safety Joint	3.00			4389.00	
Packer	5.00			4394.00	28.00 Bottom Of Top Packer
Packer	5.00			4399.00	
Stubb	1.00			4400.00	
Recorder	0.00	8673	Inside	4400.00	
Recorder	0.00	8651	Outside	4400.00	
Perforations	16.00			4416.00	
change Over Sub	1.00			4417.00	
Drill Pipe	94.00			4511.00	
Change Over Sub	1.00			4512.00	
Bullnose	3.00			4515.00	116.00 Bottom Packers & Anchor

Total Tool Length: 144.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling
250 N. Water Ste. 300
Wichita KS 67202
ATTN: Steve Miller

30 1s 28w Cheyenne,KS
Gleason Unit #1-30
Job Ticket: 56808 **DST#: 4**
Test Start: 2014.03.15 @ 21:45:00

Mud and Cushion Information

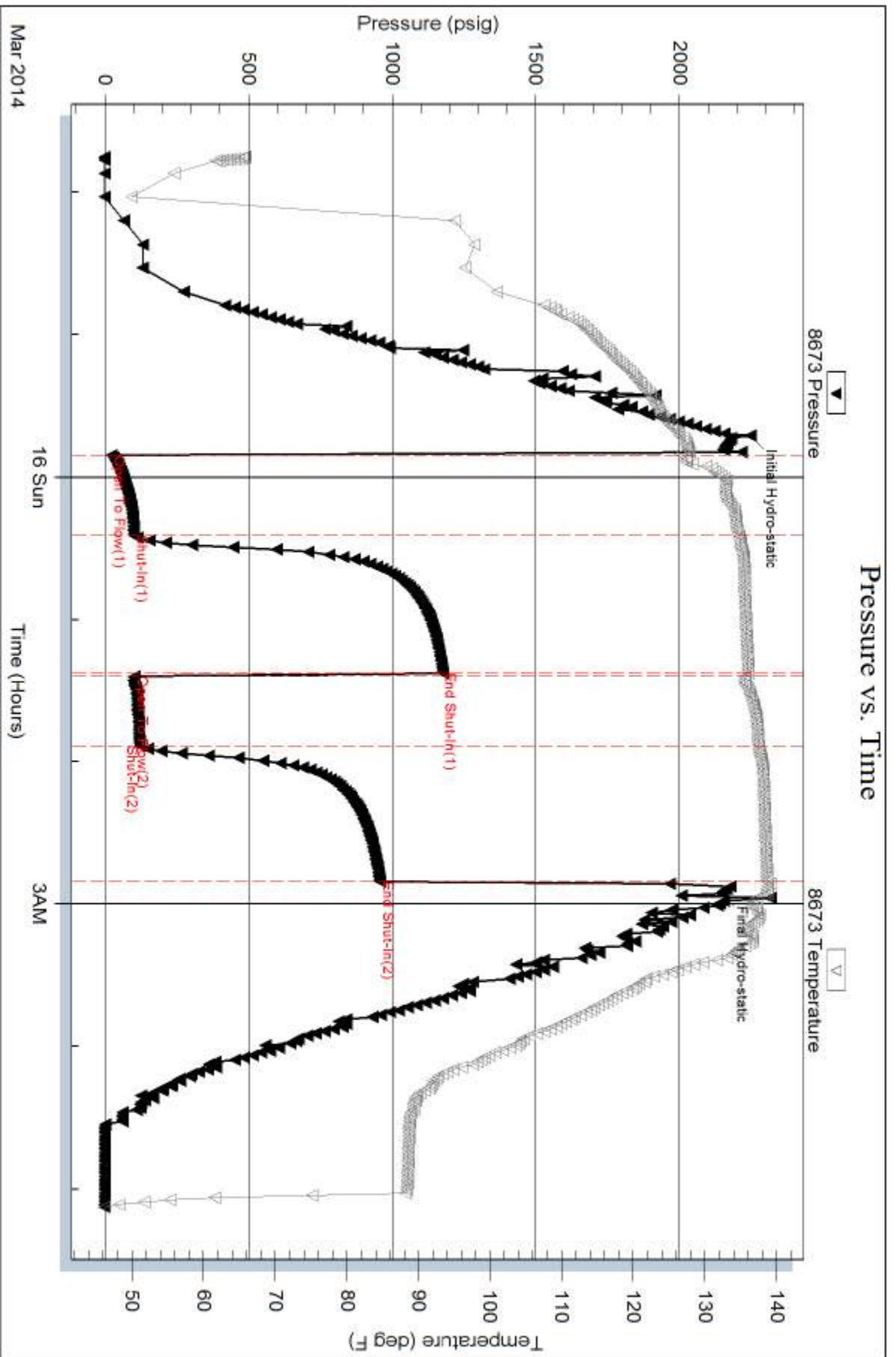
Mud Type: Gel Chem	Cushion Type:	Oil API: 35 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: ppm
Viscosity: 75.00 sec/qt	Cushion Volume: bbl	
Water Loss: 6.40 in ³	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 700.00 ppm		
Filter Cake: 2.00 inches		

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	gmco-10%g45%m45%o	0.590
62.00	gocm-30%g15%o55%m	0.305
62.00	gmco-5%g30%m65%o	0.861
15.00	oil	0.210
0.00	186 ft. gas in pipe	0.000

Total Length: 259.00 ft Total Volume: 1.966 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments: 36@70*=-

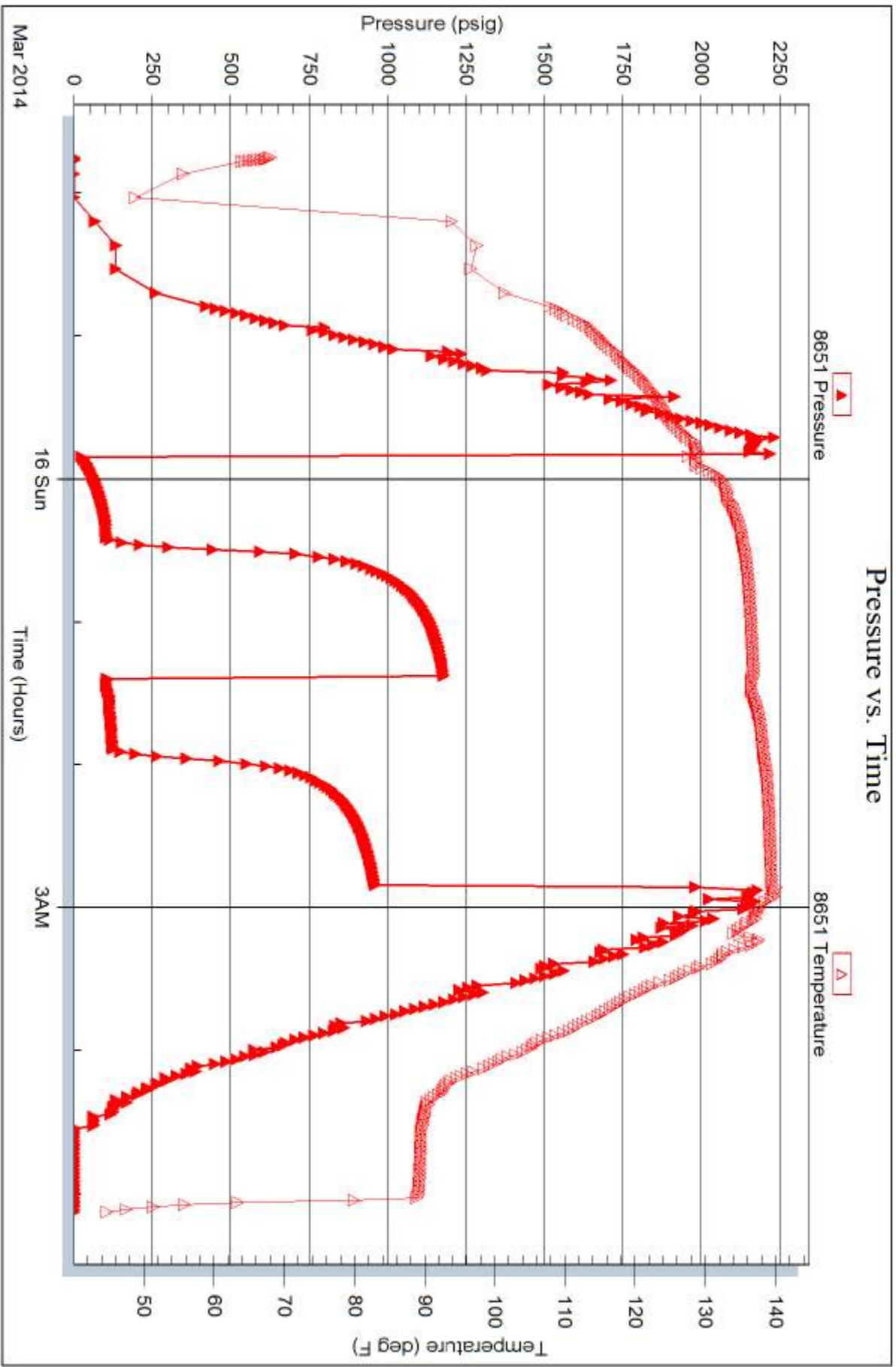


Serial #: 8651

Outside Murfin Drilling

Geason Unit #1-30

DST Test Number: 4



Trilobite Testing, Inc

Ref. No: 56808

Printed: 2014.03.20 @ 17:20:34



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 56805

4/10

Well Name & No. Gleason unit #1-30 Test No. 1 Date 3-12-2014
 Company Murfin Drilling Co. Elevation 3127 KB 3115 GL
 Address 250 N. Water Ste. 300 Wichita KS 67207
 Co. Rep / Geo. Steve Miller Rig Murfin #20
 Location: Sec. 30 Twp. 15 Rge. 28W Co. Cheyenne State Ks

Interval Tested 3486 4030 Zone Tested CREAD
 Anchor Length 44 Drill Pipe Run 3799 Mud Wt. 9.2
 Top Packer Depth 3981 Drill Collars Run 183 Vis 80
 Bottom Packer Depth 3486 Wt. Pipe Run - 0 WL 5.6
 Total Depth 4030 Chlorides 500 ppm System LCM 6#

Blow Description IFT Weak blow, surface Dead in 20 mins
 IFT: No blow back
 FF: No blow
 FST: No blow back

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>OCM</u>				

Rec Total 5 BHT 129 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic <u>2073</u>	<input checked="" type="checkbox"/> Test <u>1250</u>	T-On Location <u>12:00</u>
(B) First Initial Flow <u>18</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>12:45</u>
(C) First Final Flow <u>19</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>14:58</u>
(D) Initial Shut-In <u>282</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>17:55</u>
(E) Second Initial Flow <u>18</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>19:45</u>
(F) Second Final Flow <u>19</u>	<input checked="" type="checkbox"/> Mileage <u>70x2=140x1.55</u> 217	Comments _____
(G) Final Shut-In <u>166</u>	<input type="checkbox"/> Sampler _____	
(H) Final Hydrostatic <u>1950</u>	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> Ruined Shale Packer _____
	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Ruined Packer _____
Initial Open <u>30</u>	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Extra Copies _____
Initial Shut-In <u>60</u>	<input type="checkbox"/> Extra Recorder _____	Sub Total <u>0</u>
Final Flow <u>30</u>	<input type="checkbox"/> Day Standby _____	Total <u>1792</u>
Final Shut-In <u>60</u>	<input type="checkbox"/> Accessibility _____	MP/DST Disc't _____
	Sub Total <u>1792</u>	

Approved By _____ Our Representative Chuck [Signature]

Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.

785-259-3188



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 56806

4/10

Well Name & No. Gleason Unit #1-30 Test No. 2 Date 3-13-2014
 Company Murfin Drilling Elevation 3127 KB 3115 GL
 Address 250 N. Water Ste 300 Wichita KS 67202
 Co. Rep / Geo. Steve Miller Rig Murfin #20
 Location: Sec. 30 Twp. 1s Rge. 28W Co. Cherokee State KS

Interval Tested 4120 4226 Zone Tested LKC-D-6
 Anchor Length 106 Drill Pipe Run 3923 Mud Wt. 9.4
 Top Packer Depth 4115 Drill Collars Run 183 Vis 55
 Bottom Packer Depth 4120 Wt. Pipe Run -0- WL 6.0
 Total Depth 4226 Chlorides 500 ppm System LCM 4#

Blow Description IF: Weak blow, Dead in 5 mins.
ISI: No blow back
FF: No blow
FBI: No blow back

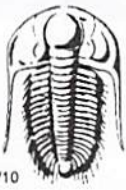
Rec	Feet of	%gas	%oil	%water	%mud
<u>10</u>	<u>mud with oil spots</u>				

Rec Total 10 BHT 130 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic <u>227A</u>	<input checked="" type="checkbox"/> Test <u>1250</u>	T-On Location <u>18:35</u>
(B) First Initial Flow <u>22</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>17:50</u>
(C) First Final Flow <u>24</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>19:28</u>
(D) Initial Shut-In <u>116</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>20:30</u>
(E) Second Initial Flow <u>24</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>23:18</u>
(F) Second Final Flow <u>26</u>	<input checked="" type="checkbox"/> Mileage <u>70x2 = 140x1.55</u> 217	Comments _____
(G) Final Shut-In <u>70</u>	<input type="checkbox"/> Sampler _____	<input type="checkbox"/> Ruined Shale Packer _____
(H) Final Hydrostatic <u>2054</u>	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> Ruined Packer _____
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Extra Copies _____
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Packer _____	Sub Total <u>0</u>
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder _____	Total <u>1792</u>
Final Shut-In <u>30</u>	<input type="checkbox"/> Day Standby _____	MP/DST Disc't _____
	<input type="checkbox"/> Accessibility _____	
	Sub Total <u>1792</u>	

Approved By _____ Our Representative Chuck Kopp

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **56807**

4/10

Well Name & No. Gleason unit # 1-30 Test No. 3 Date 3-14-2014
 Company Murfin Drilling Elevation 3127 KB 3115 GL
 Address _____
 Co. Rep / Geo. Steve Miller Rig Murfin #20
 Location: Sec. 30 Twp. 1S Rge. 28W Co. _____ State KS

Interval Tested 4236 4380 Zone Tested LKC-H-R
 Anchor Length _____ 144 Drill Pipe Run _____ Mud Wt. 9.4
 Top Packer Depth _____ 4231 Drill Collars Run 183 Vis SS
 Bottom Packer Depth _____ 4236 Wt. Pipe Run -0- WL 6.0
 Total Depth _____ 4380 Chlorides 500 ppm System LCM 4H

Blow Description IF: Fair Blow, Bu: 14 to B.O.B in 20 mins.
Is I: No blow back
FF: Weak blow, Bu: 14 in over 60 mins.
FES: No blow back

Rec	Feet of	%gas	%oil	%water	%mud
<u>124</u>	<u>m</u>				<u>100%</u>
<u>124</u>	<u>wcm</u>			<u>20</u>	<u>80</u>
<u>186</u>	<u>new</u>			<u>50</u>	<u>50</u>
_____	_____				
_____	_____				

Rec Total 434 BHT 138 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic _____ <u>2180</u>	<input checked="" type="checkbox"/> Test _____ <u>1250</u>	T-On Location _____ <u>18:45</u>
(B) First Initial Flow _____ <u>33</u>	<input checked="" type="checkbox"/> Jars _____ <u>250</u>	T-Started _____ <u>19:45</u>
(C) First Final Flow _____ <u>135</u>	<input checked="" type="checkbox"/> Safety Joint _____ <u>75</u>	T-Open _____ <u>21:38</u>
(D) Initial Shut-In _____ <u>1383</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled _____ <u>1:35</u>
(E) Second Initial Flow _____ <u>138</u>	<input type="checkbox"/> Hourly Standby _____	T-Out _____ <u>3:41</u>
(F) Second Final Flow _____ <u>213</u>	<input checked="" type="checkbox"/> Mileage <u>72x2=144x1.55= 217</u>	Comments _____
(G) Final Shut-In _____ <u>1350</u>	<input type="checkbox"/> Sampler _____	
(H) Final Hydrostatic _____ <u>2110</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>1792</u>
	<input type="checkbox"/> Accessibility _____	MP/DST Disc't _____
	Sub Total _____ <u>1792</u>	

Approved By _____ Our Representative [Signature]

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 56808

Well Name & No. Gleason unit # 1-30 Test No. 4 Date 3-16-2014
 Company Murfin Drilling Co. Elevation 3127 KB 3115 GL
 Address 250 N. Water Ste. 300 Wichita KS
 Co. Rep / Geo. Steve Miller Rig Murfin # 20
 Location: Sec. 30 Twp. 1S Rge. 28W Co. Cheyenne State KS

Interval Tested 4349 4515 Zone Tested Pawnee
 Anchor Length 116 Drill Pipe Run 4203 Mud Wt. 9.4
 Top Packer Depth 4344 Drill Collars Run 183 Vis 75
 Bottom Packer Depth 4344 Wt. Pipe Run 0- WL 6.4
 Total Depth 4515 Chlorides 700 ppm System LCM 4#

Blow Description IF: Fair blow, Built to B.O.B in 20 mins
ISI: No blow back
FF: Weak blow sin over 30 mins
FSE: No blow back

Rec	Feet of	%gas	%oil	%water	%mud
<u>22</u>	<u>186 ft gas in pipe</u>				
<u>15</u>	<u>oil</u>	<u>10</u>	<u>90</u>		
<u>62</u>	<u>9mco</u>	<u>5</u>	<u>65</u>		<u>30</u>
<u>62</u>	<u>90cm</u>	<u>30</u>	<u>15</u>		<u>55</u>
<u>120</u>	<u>9mco</u>	<u>10</u>	<u>45</u>		<u>45</u>

Rec Total 254 BHT 137 Gravity 36 API RW @ ° F Chlorides ppm

(A) Initial Hydrostatic <u>2248</u>	<input checked="" type="checkbox"/> Test <u>1250</u>	T-On Location <u>21:30</u>
(B) First Initial Flow <u>23</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>21:45</u>
(C) First Final Flow <u>101</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>23:50</u>
(D) Initial Shut-In <u>1177</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>2:55</u>
(E) Second Initial Flow <u>104</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>5:08</u>
(F) Second Final Flow <u>123</u>	<input checked="" type="checkbox"/> Mileage <u>72x2 = 144x1.5 = 434</u>	Comments <u>loaded tools</u>
(G) Final Shut-In <u>956</u>	<input type="checkbox"/> Sampler	<input type="checkbox"/> Ruined Shale Packer
(H) Final Hydrostatic <u>2145</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Packer
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Extra Copies
Initial Shut-In <u>60</u>	<input type="checkbox"/> Extra Packer	Sub Total <u>0</u>
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder	Total <u>2009</u>
Final Shut-In <u>60</u>	<input type="checkbox"/> Day Standby	MP/DST Disc't
	<input type="checkbox"/> Accessibility	
	Sub Total <u>2009</u>	

Approved By _____ Our Representative Charles White
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