

Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1255334
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: _____

1255334



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: _____ _____
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Form	ACO1 - Well Completion
Operator	Murfin Drilling Co., Inc.
Well Name	Franklin 'A' 1-27
Doc ID	1255334

All Electric Logs Run

DIL
DUCP
MEL
BHCS
CBL



PO Box 93999
Southlake, TX 76092

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

*acct
Prod-m3*

INVOICE

Invoice Number: 149449
Invoice Date: Apr 29, 2015
Page: 1

Federal Tax I.D.#: 20-8651475

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

Customer ID	Field Ticket #	Payment Terms	
Murfin	64710	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-01	Oakley	Apr 29, 2015	5/29/15

Quantity	Item	Description	Unit Price	Amount
1.00	WELL NAME	Franklin A #1-27		
275.00	CEMENT MATERIALS	Class A Common	17.90	4,922.50
778.00	CEMENT MATERIALS	Chloride	1.10	855.80
288.75	CEMENT SERVICE	Cubic Feet Charge	2.48	716.10
666.00	CEMENT SERVICE	Ton Mileage Charge	2.75	1,831.50
1.00	CEMENT SERVICE	Surface	1,512.25	1,512.25
50.00	CEMENT SERVICE	Pump Truck Mileage	7.70	385.00
1.00	CEMENT SERVICE	Swedge Manifold Rental	275.00	275.00
50.00	CEMENT SERVICE	Light Vehicle Mileage	4.40	220.00
1.00	CEMENT SUPERVISOR	LaRene Wentz		
1.00	EQUIPMENT OPERATOR	Wayne McWhghy		
1.00	EQUIPMENT OPERATOR	Brandon Wilkinson		

Subtotal	10,718.15
Sales Tax	456.49
Total Invoice Amount	11,174.64
Payment/Credit Applied	
TOTAL	11,174.64

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

\$ 4,823.16 ✓

ONLY IF PAID ON OR BEFORE
May 29, 2015

*- 4823.16
6351.48*

OK, Sr



CONSOLIDATED
Oil Well Services, LLC

REMIT TO

Consolidated Oil Well Services, LLC
Dept:970
P.O.Box 4346
Houston, TX 77210-4346

MAIN OFFICE

P.O.Box 884
Chanute, KS 66720
620/431-9210, 1-800/467-8676
Fax 620/431-0012

Invoice

Invoice#

804239

Invoice Date: 05/20/15

Terms: C.O.D.

Page 1

MURFIN DRILLING

P.O. BOX 288
RUSSELL KS 67665
USA

USED FOR 1C 1D3

FRANKLIN A #1-27

APPROVED JJ FH

Part No	Description	Quantity	Unit Price	Discount(%)	Total
CE0453	Cement Pump Charge 4001' - 5000'	1.000	3,175.0000	25.000	2,381.25
CE0002	Equipment Mileage Charge - Heavy Equipment	45.000	5.2500	25.000	177.19
CE0711	Minimum Cement Delivery Charge	1.000	1,921.5000	25.000	1,441.13
CC5800	Class A Cement	350.000	27.9200	25.000	7,329.00
CC6075	Celloflake	175.000	2.9700	25.000	389.81
CC5860	ThixdoBlend I	200.000	23.7000	25.000	3,555.00
CC6077	Kolseal	1,000.000	0.5600	25.000	420.00
CC6125	Mud Flush, Viscous	500.000	1.0000	25.000	375.00
4136	Turbolizer 5 1/2	15.000	75.7500	25.000	852.19
4104	Cement Basket 5 1/2	3.000	290.0000	25.000	652.50
4454	5 1/2 Latch Down Plug	1.000	567.0000	25.000	425.25
4159	Float Shoe AFU 5 1/2	1.000	433.7500	25.000	325.31
CE1160	Rotating Adaptor For Cement Head	1.000	200.0000	25.000	150.00

Subtotal 24,631.50

Discounted Amount 6,157.88

SubTotal After Discount 18,473.62

Amount Due 26,156.10 If paid after 06/19/15

Tax: 1,143.45

Total: 19,617.08

BARTLESVILLE, OK
918/338-0808

EL DORADO, KS
316/322-7022

EUREKA, KS
620/583-7554

PONCA CITY, OK
580/762-2303

OAKLEY, KS
785/672-8822

OTTAWA, KS
785/242-4044

THAYER, KS
620/839-5269

GILLETTE, WY
307/686-4914

CUSHING, OK
918/225-2650



PO Box 884, Chanute, KS 66720
620-431-9210 or 800-467-8676

2849

TICKET NUMBER 49426
LOCATION Oakley KS
FOREMAN Dane Retzels

2783
INVOICE # 904239
FIELD TICKET & TREATMENT REPORT
CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
5-07-13	5406	Franklin A # 1-27	27	4	33	Rawlins
CUSTOMER			TRUCK # DRIVER TRUCK # DRIVER			
Mailing Address			399	Cody	7W	
CITY STATE ZIP CODE			528	Larry		
			397	Colin		
				Miles		

JOB TYPE Production HOLE SIZE 7 7/8 HOLE DEPTH 468 CASING SIZE & WEIGHT 5 1/2 15.5 LBS
CASING DEPTH 4654.93 DRILL PIPE _____ TUBING _____ OTHER _____
SLURRY WEIGHT 11.00/14.2 SLURRY VOL 3.00/1.56 WATER gal/sk 21.00/6.97 CEMENT LEFT in CASING 20.22
DISPLACEMENT 110.29 DISPLACEMENT PSI _____ MIX PSI _____ RATE Mix at 4881s Displace at 6581s

REMARKS: Safety meeting. Rig up. Run float equip. Turbos on 1-6, 8, 10, 12-15, 17, 44, 80. Baskets on 18, 45, 81. Circulate on joint 56. Run casing. Circulate on bottom 1 hr. Pump 5 BBLs ahead, mix mudflush, pump 5 BBLs behind. Plug MH with 20 sks Plug RH with 30 sks. Pump 300 sks CMD 1/2 Flo tailed in with 200 sks of Owc 5" release Release plug. Displace 110 BBLs of water. Final IHT was 1000 psi. Final plug land 1275 1500 psi. Rig down

Trucks Dane + crew

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401C	1	PUMP CHARGE	CE0453 3175.00	3175.00
5406	45	MILEAGE	CE0002 5.25	236.25
5407	24.4	Ton mileage Delivery	CE0110 1.75	1921.50
1104D	350 sks	CMD Cement	CC5800 27.72	9772.00
1107	175#	Flo Seal	CC6075 2.97	519.75
1126	200 sks	Owc Cement	CC5800 23.20	4740.00
110A	1000#	Kol Seal	CC6077 .56	560.00
1144B	500 gal	mudflush	CC6128 1.00	500.00
4136	15	5 1/2 Turbolizers	CP 8576 75.75	1136.25
4104	3	5 1/2 Baskets	CP 8629 290.00	870.00
4454	1	Latchdown Plug Assembly	CP8254 567.00	567.00
4159	1	5 1/2 APU Float shoe	8855 (P8805) 433.75	433.75
4310	1	5 1/2 Rotating Head.	CE1160 200.00	200.00
			546	24631.50
			less 25%	6157.87
			Tot	18473.63
			SALES TAX	1143.46
			ESTIMATED TOTAL	19617.08

AUTHORIZATION [Signature] TITLE _____ DATE _____
I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form.

Franklin 'A' #1-27
 660' FSL 1320'FWL
 Sec. 27-4S-33W
 3128' KB

Formation	Sample top	Datum	Ref	Log tops	Datum	Ref
Anhydrite	2794	+334	+25	2788	+340	+31
B/Anhydrite	2827	+301	+28	2826	+302	+29
Topeka	3814	-686	+26	3815	-687	+25
Heebner	3981	-853	+25	3979	-851	+27
Lansing	4022	-894	+26	4022	-894	+26
Stark	4209	-1081	+25	4203	-1075	+31
BKC	4260	-1132	+24	4252	-1124	+32
Pawnee	4380	-1252	+30	4384	-1256	+26
Cherokee	4467	-1339	+21	4454	-1326	+34
Mississippi	4630	-1502	+23	4594	-1466	+59
RTD	4668	-1540				
LTD				4668	-1540	



DRILL STEM TEST REPORT

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

250 N. Water, Ste 300
Wichita, KS 67202

ATTN: Steve Miller

Franklin 'A' #1-27

27-4s-33w Rawlins,KS

Start Date: 2015.05.02 @ 18:30:00

End Date: 2015.05.03 @ 03:54:30

Job Ticket #: 62278 DST #: 1

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

Printed: 2015.05.07 @ 16:41:42



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Murfin Drlg. Co., Inc.

27-4s-33w Rawlins, KS

250 N. Water, Ste 300
Wichita, KS 67202

Franklin 'A' #1-27

Job Ticket: 62278

DST#: 1

ATTN: Steve Miller

Test Start: 2015.05.02 @ 18:30:00

GENERAL INFORMATION:

Formation: **Toronto - LKC "B"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 20:48:30
 Time Test Ended: 03:54:30
 Interval: **3979.00 ft (KB) To 4060.00 ft (KB) (TVD)**
 Total Depth: 4060.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Brandon Quintana
 Unit No: 57
 Reference Elevations: 3128.00 ft (KB)
 3123.00 ft (CF)
 KB to GR/CF: 5.00 ft

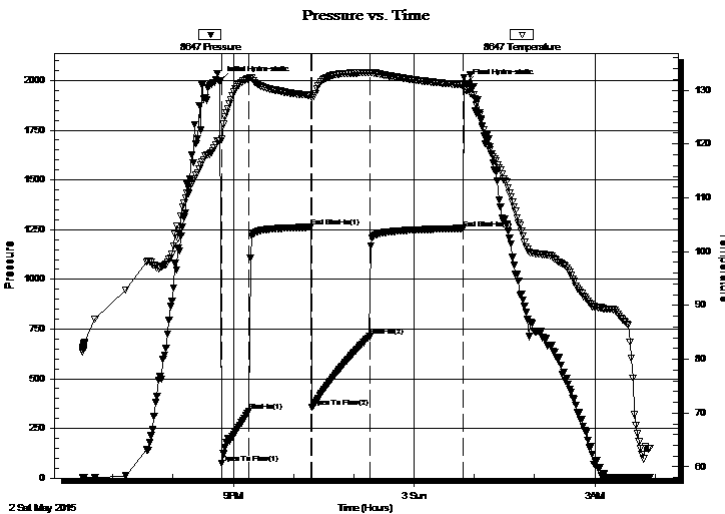
Serial #: 8647

Inside

Press@RunDepth: 712.77 psig @ 3980.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2015.05.02 End Date: 2015.05.03 Last Calib.: 2015.05.03
 Start Time: 18:30:01 End Time: 03:54:30 Time On Btm: 2015.05.02 @ 20:47:00
 Time Off Btm: 2015.05.03 @ 00:51:30

TEST COMMENT: 30 - IF - Opened w/ surface blow , built to B.o.B in 7 min.
 60 - ISI - Return built to 1", died back to 1/2"
 60 - FF - Blow built to B.o.B in 6 min.
 90 - FSI - No Return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1999.27	120.66	Initial Hydro-static
2	74.74	120.89	Open To Flow (1)
29	337.54	132.17	Shut-In(1)
90	1262.34	129.03	End Shut-In(1)
92	356.91	128.57	Open To Flow (2)
149	712.77	133.23	Shut-In(2)
242	1256.10	130.98	End Shut-In(2)
245	1982.88	130.03	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1445.00	WM 79%w , 21%m	18.00
43.00	OCM 98%m, 2%o w / 1' of oil on top	0.60
0.00	83' GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drlg. Co., Inc.

27-4s-33w Rawlins,KS

250 N. Water, Ste 300
Wichita, KS 67202

Franklin 'A' #1-27

Job Ticket: 62278

DST#: 1

ATTN: Steve Miller

Test Start: 2015.05.02 @ 18:30:00

Tool Information

Drill Pipe:	Length: 3735.00 ft	Diameter: 3.80 inches	Volume: 52.39 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: inches	Volume: - bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 248.80 ft	Diameter: 2.25 inches	Volume: 1.22 bbl	Weight to Pull Loose: 75000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	32.80 ft			String Weight: Initial 53000.00 lb
Depth to Top Packer:	3979.00 ft			Final 57000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	81.00 ft			
Tool Length:	109.00 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			3956.00	
Hydraulic tool	5.00			3961.00	
Jars	5.00			3966.00	
Safety Joint	3.00			3969.00	
Packer	5.00			3974.00	28.00 Bottom Of Top Packer
Packer	5.00			3979.00	
Stubb	1.00			3980.00	
Recorder	0.00	8647	Inside	3980.00	
Recorder	0.00	8372	Outside	3980.00	
Perforations	12.00			3992.00	
Change Over Sub	1.00			3993.00	
Drill Pipe	63.00			4056.00	
Change Over Sub	1.00			4057.00	
Bullnose	3.00			4060.00	81.00 Bottom Packers & Anchor

Total Tool Length: 109.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drlg. Co., Inc.

27-4s-33w Rawlins,KS

250 N. Water, Ste 300
Wichita, KS 67202

Franklin 'A' #1-27

Job Ticket: 62278

DST#: 1

ATTN: Steve Miller

Test Start: 2015.05.02 @ 18:30:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity: 105000 ppm

Viscosity: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.76 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5400.00 ppm

Filter Cake: 3.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1445.00	WM 79%w , 21%m	18.003
43.00	OCM 98%m, 2%o w / 1' of oil on top	0.603
0.00	83' GIP	0.000

Total Length: 1488.00 ft Total Volume: 18.606 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

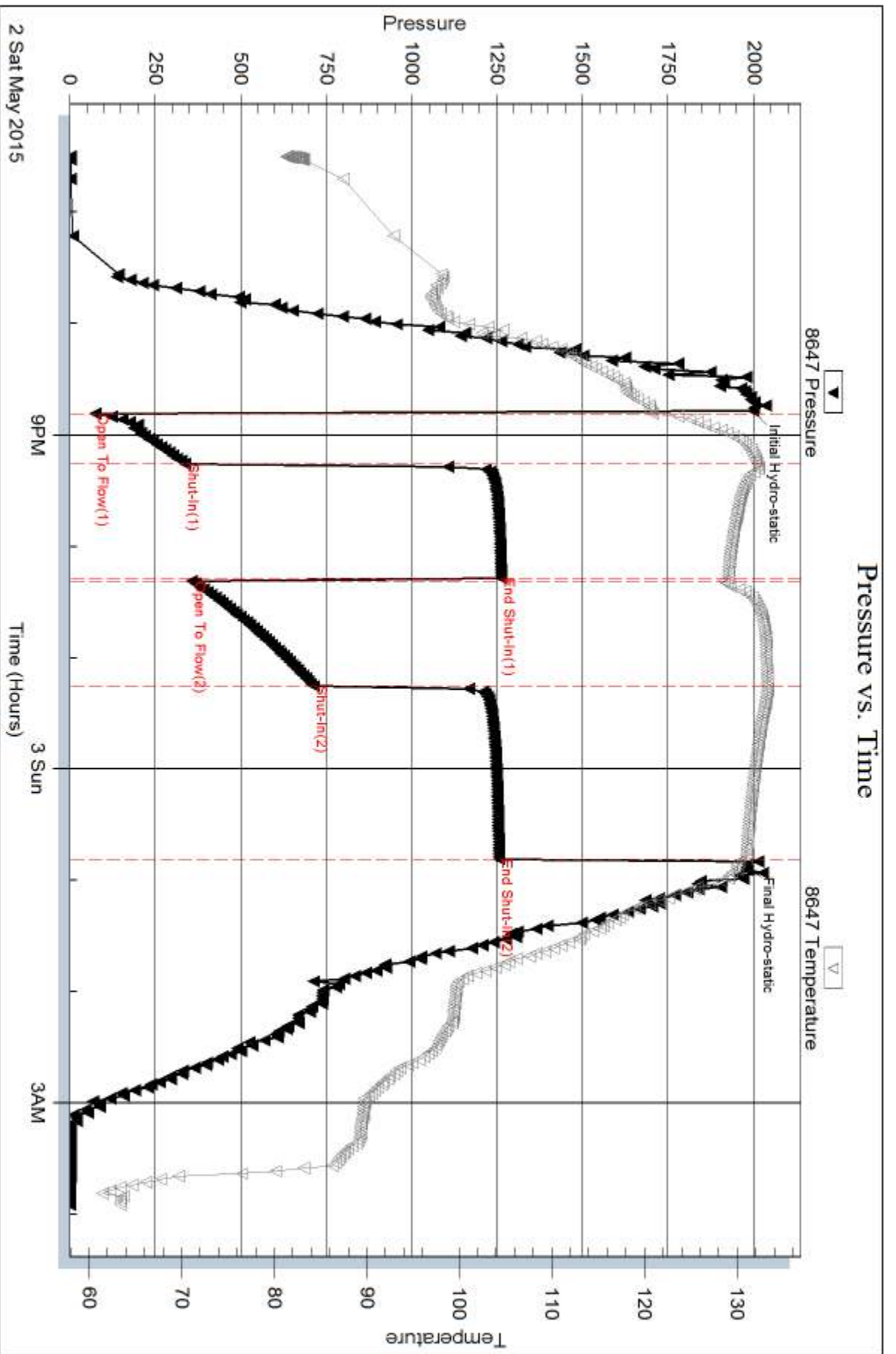
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 83' GIP

RW.107 @59F





DRILL STEM TEST REPORT

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

250 N. Water, Ste 300
Wichita, KS 67202

ATTN: Steve Miller

Franklin 'A' #1-27

27-4s-33w Rawlins,KS

Start Date: 2015.05.03 @ 15:36:00

End Date: 2015.05.04 @ 00:28:30

Job Ticket #: 62279 DST #: 2

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

Printed: 2015.05.07 @ 16:41:09



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drlg. Co., Inc.

27-4s-33w Rawlins, KS

250 N. Water, Ste 300
Wichita, KS 67202

Franklin 'A' #1-27

Job Ticket: 62279

DST#: 2

ATTN: Steve Miller

Test Start: 2015.05.03 @ 15:36:00

GENERAL INFORMATION:

Formation: **LKC "F&G"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:48:30

Time Test Ended: 00:28:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Brandon Quintana

Unit No: 57

Interval: 4084.00 ft (KB) To 4120.00 ft (KB) (TVD)

Reference Elevations: 3128.00 ft (KB)

Total Depth: 4120.00 ft (KB) (TVD)

3123.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8647

Inside

Press@RunDepth: 161.06 psig @ 4085.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.05.03

End Date:

2015.05.04

Last Calib.: 2015.05.04

Start Time: 15:36:01

End Time:

00:28:30

Time On Btm: 2015.05.03 @ 17:41:00

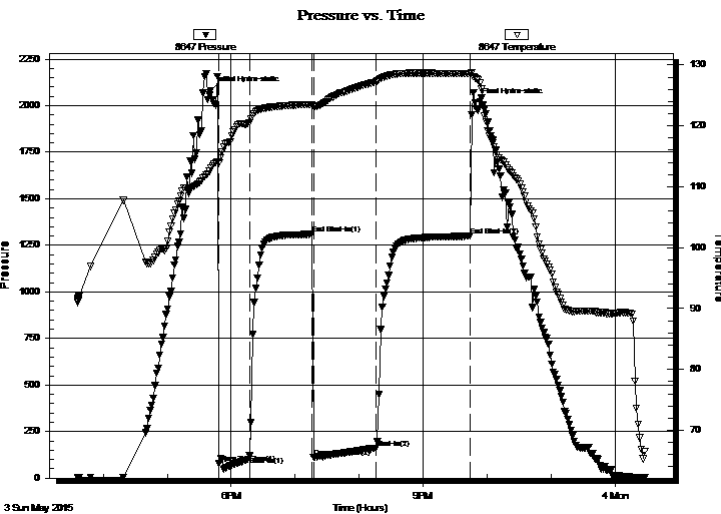
Time Off Btm: 2015.05.03 @ 21:48:30

TEST COMMENT: 30 - IF - Opened w/ surface blow , built to B.o.B in 27 min.

60 - ISI - Return built to 1 1/2"

30 - FF - Blow built to B.o.B in 26 min.

60 - FSI - Return built to 3", died back to 2"



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2080.17	113.01	Initial Hydro-static
8	78.60	113.94	Open To Flow (1)
36	119.52	120.54	Shut-In(1)
95	1309.84	123.55	End Shut-In(1)
96	112.99	123.25	Open To Flow (2)
155	161.06	127.22	Shut-In(2)
243	1299.41	128.56	End Shut-In(2)
248	2015.85	127.84	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
122.00	GOCM 70% m, 20% o, 10% g	0.60
216.00	GO 80% o, 20% g	1.87
0.00	409' GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drlg. Co., Inc.

27-4s-33w Rawlins,KS

250 N. Water, Ste 300
Wichita, KS 67202

Franklin 'A' #1-27

Job Ticket: 62279

DST#: 2

ATTN: Steve Miller

Test Start: 2015.05.03 @ 15:36:00

Tool Information

Drill Pipe:	Length: 3831.00 ft	Diameter: 3.80 inches	Volume: 53.74 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: inches	Volume: - bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 248.80 ft	Diameter: 2.25 inches	Volume: 1.22 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	23.80 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	4084.00 ft			Final 55000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	36.00 ft			
Tool Length:	64.00 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			4061.00	
Hydraulic tool	5.00			4066.00	
Jars	5.00			4071.00	
Safety Joint	3.00			4074.00	
Packer	5.00			4079.00	28.00 Bottom Of Top Packer
Packer	5.00			4084.00	
Stubb	1.00			4085.00	
Recorder	0.00	8647	Inside	4085.00	
Recorder	0.00	8372	Outside	4085.00	
Perforations	32.00			4117.00	
Bullnose	3.00			4120.00	36.00 Bottom Packers & Anchor

Total Tool Length: 64.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drlg. Co., Inc.

27-4s-33w Rawlins,KS

250 N. Water, Ste 300
Wichita, KS 67202

Franklin 'A' #1-27

Job Ticket: 62279

DST#: 2

ATTN: Steve Miller

Test Start: 2015.05.03 @ 15:36:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 47.00 sec/qt
Water Loss: 8.77 in³
Resistivity: ohm.m
Salinity: 6700.00 ppm
Filter Cake: 3.00 inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psig

Oil API: 31 deg API
Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
122.00	GOCM 70% _m , 20% _o , 10% _g	0.600
216.00	GO 80% _o , 20% _g	1.875
0.00	409' GIP	0.000

Total Length: 338.00 ft Total Volume: 2.475 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

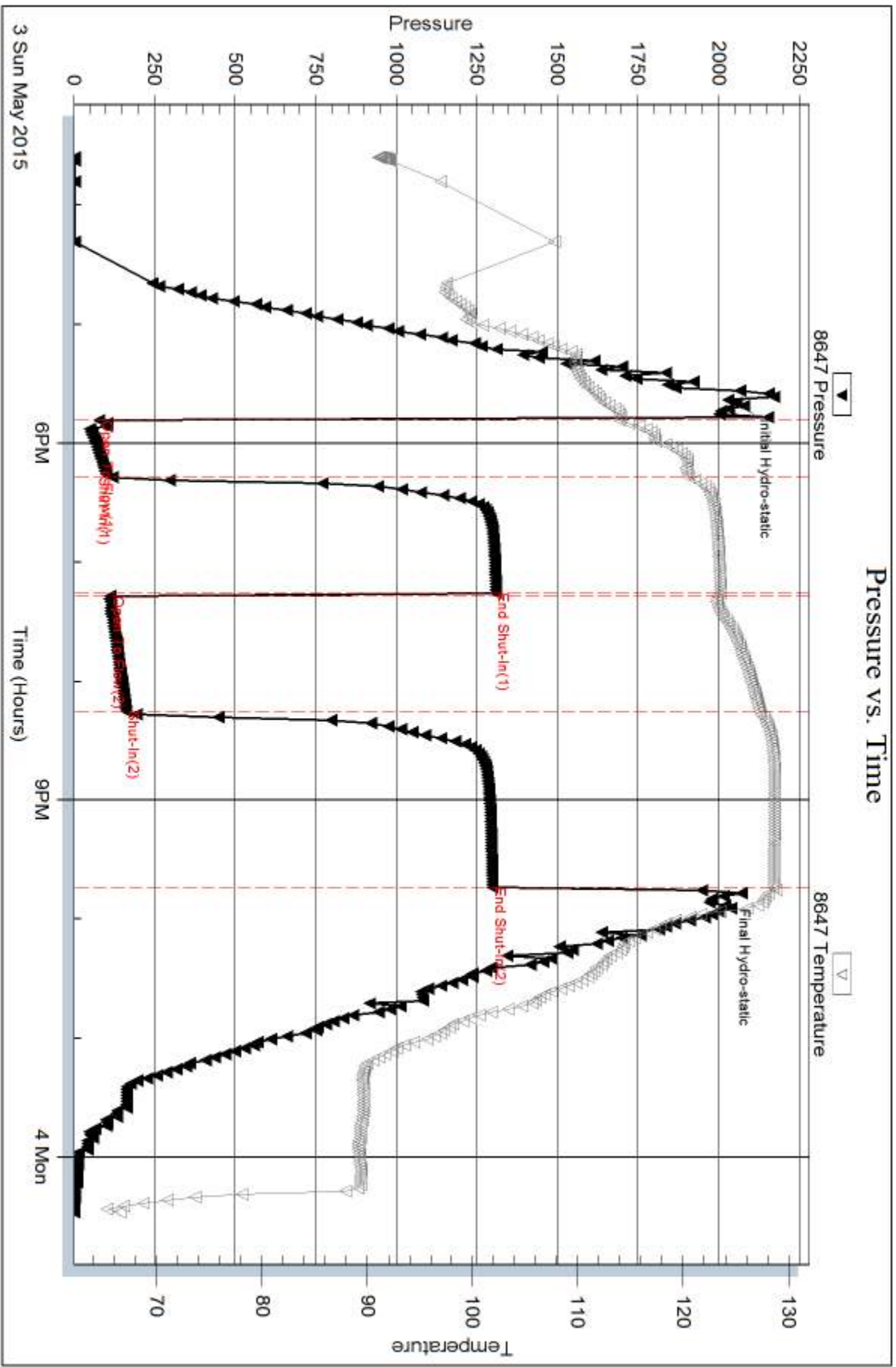
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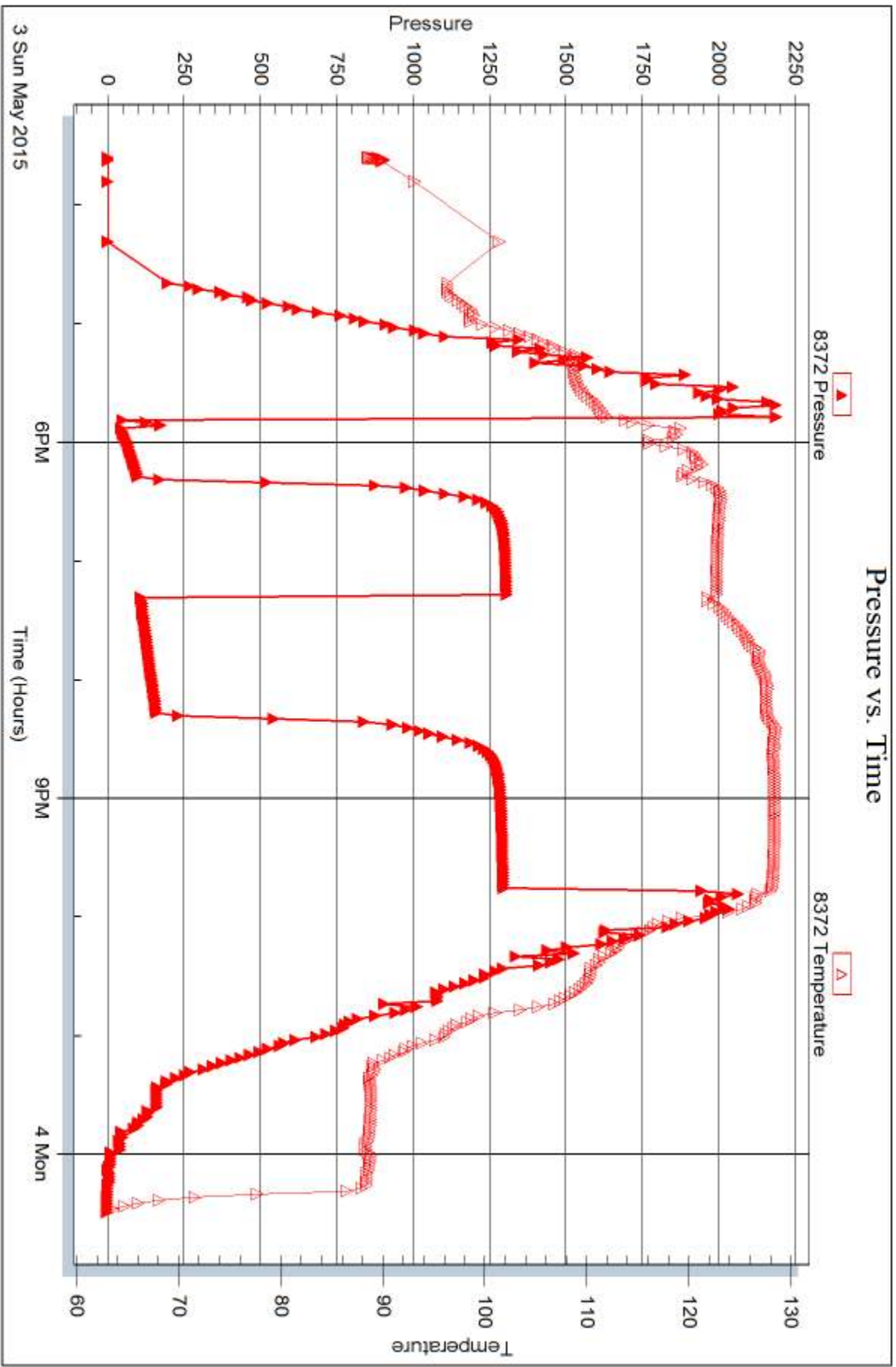
Laboratory Name:

Laboratory Location:

Recovery Comments: 409' GIP

Gravity 30 @ 75F Corrected = 31







DRILL STEM TEST REPORT

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

250 N. Water, Ste 300
Wichita, KS 67202

ATTN: Steve Miller

Franklin 'A' #1-27

27-4s-33w Rawlins,KS

Start Date: 2015.05.04 @ 11:46:00

End Date: 2015.05.04 @ 19:04:30

Job Ticket #: 62280 DST #: 3

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

Printed: 2015.05.07 @ 16:40:45

Murfin Drlg. Co., Inc.
27-4s-33w Rawlins,KS
Franklin 'A' #1-27
DST # 3
LKC "J"
2015.05.04



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drlg. Co., Inc.

27-4s-33w Rawlins,KS

250 N. Water, Ste 300
Wichita, KS 67202

Franklin 'A' #1-27

Job Ticket: 62280

DST#: 3

ATTN: Steve Miller

Test Start: 2015.05.04 @ 11:46:00

GENERAL INFORMATION:

Formation: **LKC "J"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:07:30

Time Test Ended: 19:04:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Brandon Quintana

Unit No: 57

Interval: 4164.00 ft (KB) To 4200.00 ft (KB) (TVD)

Reference Elevations: 3128.00 ft (KB)

Total Depth: 4200.00 ft (KB) (TVD)

3123.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8647

Inside

Press@RunDepth: 58.32 psig @ 4165.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.05.04

End Date:

2015.05.04

Last Calib.:

2015.05.04

Start Time: 11:46:01

End Time:

19:04:30

Time On Btm:

2015.05.04 @ 14:05:30

Time Off Btm:

2015.05.04 @ 17:07:30

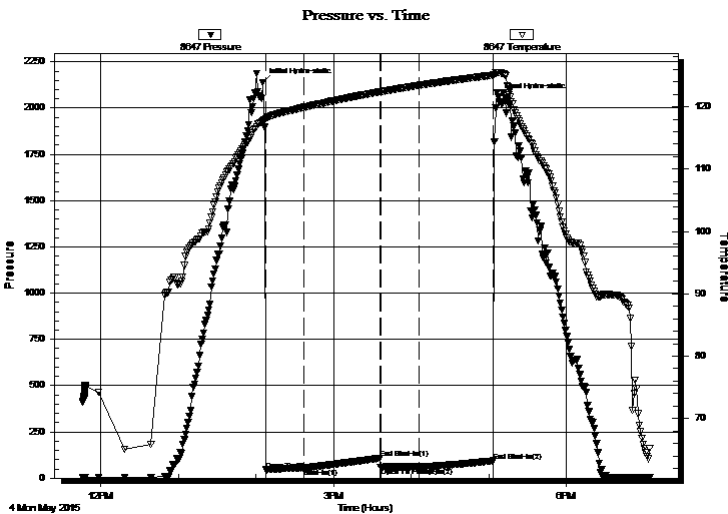
TEST COMMENT: 30 - IF - Opened w/ surface blow , built to 3/4"

60 - ISI - No Return

30 - FF - No Blow

60 - FSI - No Return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2139.91	117.69	Initial Hydro-static
2	44.71	118.08	Open To Flow (1)
32	54.20	119.92	Shut-In(1)
90	106.83	122.39	End Shut-In(1)
91	59.62	122.38	Open To Flow (2)
121	58.32	123.45	Shut-In(2)
178	93.34	125.08	End Shut-In(2)
182	2059.08	125.52	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
64.00	100% mud	0.31

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drlg. Co., Inc.

27-4s-33w Rawlins,KS

250 N. Water, Ste 300
Wichita, KS 67202

Franklin 'A' #1-27

Job Ticket: 62280

DST#: 3

ATTN: Steve Miller

Test Start: 2015.05.04 @ 11:46:00

Tool Information

Drill Pipe:	Length: 3896.00 ft	Diameter: 3.80 inches	Volume: 54.65 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: inches	Volume: - bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 248.80 ft	Diameter: 2.25 inches	Volume: 1.22 bbl	Weight to Pull Loose:	70000.00 lb
			<u>Total Volume:</u>	Tool Chased	0.00 ft
			- bbl	String Weight: Initial	54000.00 lb
Drill Pipe Above KB:	8.80 ft			Final	54000.00 lb
Depth to Top Packer:	4164.00 ft				
Depth to Bottom Packer:	ft				
Interval between Packers:	36.00 ft				
Tool Length:	64.00 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			4141.00	
Hydraulic tool	5.00			4146.00	
Jars	5.00			4151.00	
Safety Joint	3.00			4154.00	
Packer	5.00			4159.00	28.00 Bottom Of Top Packer
Packer	5.00			4164.00	
Stubb	1.00			4165.00	
Recorder	0.00	8647	Inside	4165.00	
Recorder	0.00	8372	Outside	4165.00	
Perforations	32.00			4197.00	
Bullnose	3.00			4200.00	36.00 Bottom Packers & Anchor

Total Tool Length: 64.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drlg. Co., Inc.

27-4s-33w Rawlins,KS

250 N. Water, Ste 300
Wichita, KS 67202

Franklin 'A' #1-27

Job Ticket: 62280

DST#: 3

ATTN: Steve Miller

Test Start: 2015.05.04 @ 11:46:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 47.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.78 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6700.00 ppm

Filter Cake: 3.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
64.00	100% mud	0.315

Total Length: 64.00 ft Total Volume: 0.315 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

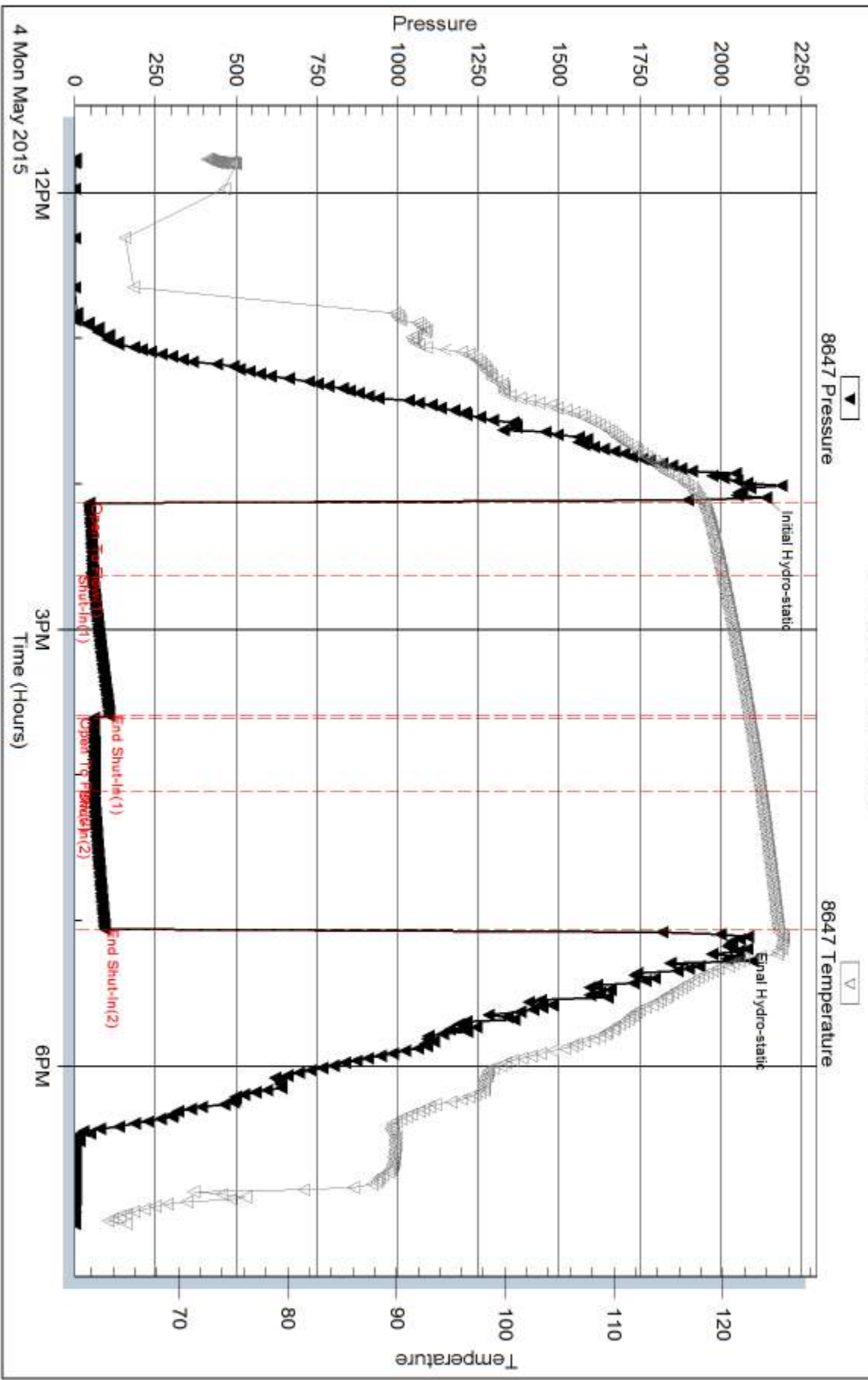
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

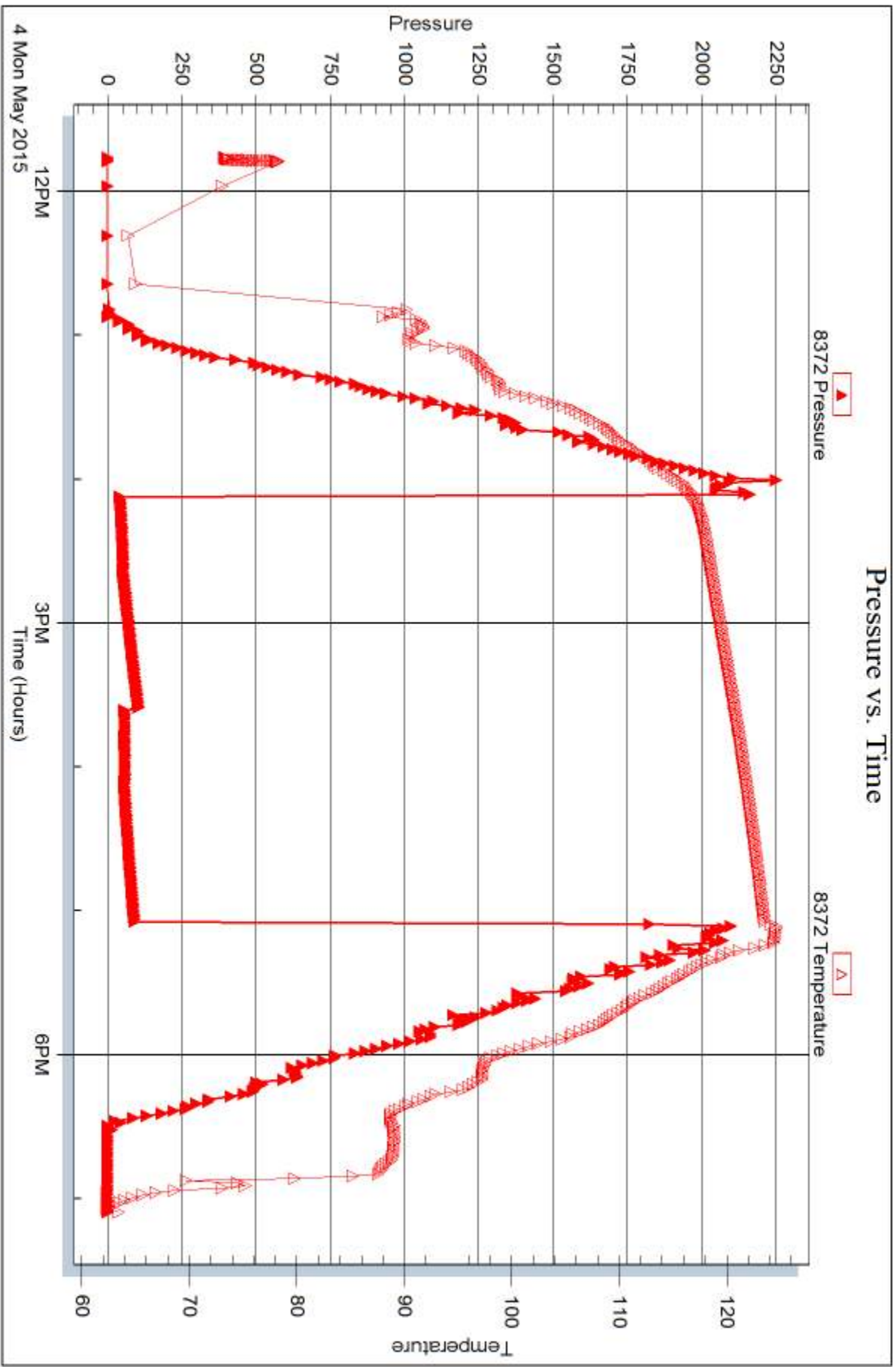


Serial #: 8372

Outside Murfin Dtg. Co., Inc.

Franklin 'A' #1-27

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 62280

Printed: 2015.05.07 @ 16:40:47



DRILL STEM TEST REPORT

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

250 N. Water, Ste 300
Wichita, KS 67202

ATTN: Steve Miller

Franklin 'A' #1-27

27-4s-33w Rawlins,KS

Start Date: 2015.05.05 @ 16:25:00

End Date: 2015.05.06 @ 01:40:30

Job Ticket #: 62281 DST #: 4

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

Printed: 2015.05.07 @ 16:40:16

Murfin Drlg. Co., Inc.

27-4s-33w Rawlins,KS

Franklin 'A' #1-27

DST # 4

Lower Pawnee

2015.05.05



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drlg. Co., Inc.

27-4s-33w Rawlins,KS

250 N. Water, Ste 300
Wichita, KS 67202

Franklin 'A' #1-27

ATTN: Steve Miller

Job Ticket: 62281

DST#: 4

Test Start: 2015.05.05 @ 16:25:00

GENERAL INFORMATION:

Formation: **Lower Pawnee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:51:00

Time Test Ended: 01:40:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Brandon Quintana

Unit No: 57

Interval: 4408.00 ft (KB) To 4436.00 ft (KB) (TVD)

Reference Elevations: 3128.00 ft (KB)

Total Depth: 4436.00 ft (KB) (TVD)

3123.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8647

Inside

Press@RunDepth: 218.89 psig @ 4409.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.05.05

End Date:

2015.05.06

Last Calib.:

2015.05.06

Start Time:

16:25:01

End Time:

01:40:30

Time On Btm:

2015.05.05 @ 18:45:00

Time Off Btm:

2015.05.05 @ 22:54:00

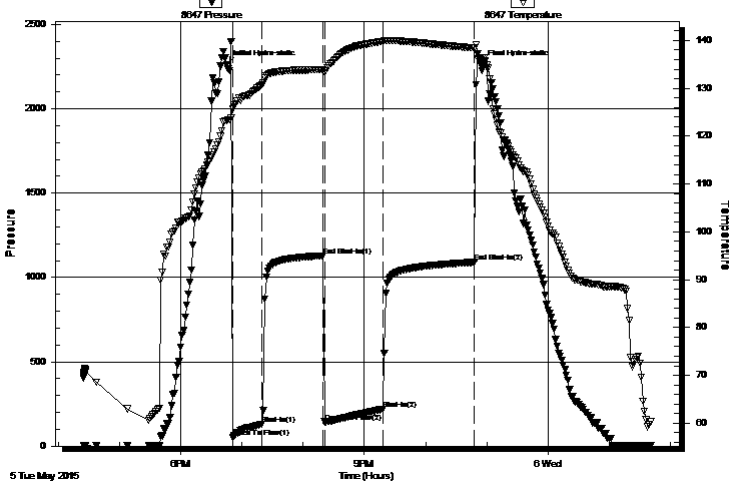
TEST COMMENT: 30 - IF - Opened w/surface blow / built to B.o.B in 13 minutes

60 ISI - Return built to 7" over the hour

30 - FF - Blow built to B.o.B in 12 min.

60 - FSI - Return built to 7" over the 90 min.

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2263.03	123.29	Initial Hydro-static
6	53.44	125.62	Open To Flow (1)
35	128.91	130.72	Shut-In(1)
95	1129.11	133.85	End Shut-In(1)
96	143.86	133.23	Open To Flow (2)
153	218.89	139.80	Shut-In(2)
243	1090.86	138.43	End Shut-In(2)
249	2258.72	136.35	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
244.00	GMCO 40%o, 30%g, 30%m	1.20
297.00	GO 70%o, 30%g	4.12
0.00	585' GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drlg. Co., Inc.

27-4s-33w Rawlins,KS

250 N. Water, Ste 300
Wichita, KS 67202

Franklin 'A' #1-27

Job Ticket: 62281

DST#: 4

ATTN: Steve Miller

Test Start: 2015.05.05 @ 16:25:00

Tool Information

Drill Pipe:	Length: 4157.00 ft	Diameter: 3.80 inches	Volume: 58.31 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: inches	Volume: - bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 248.80 ft	Diameter: 2.25 inches	Volume: 1.22 bbl	Weight to Pull Loose: 75000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	17.80 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	4408.00 ft			Final 59000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	28.00 ft			
Tool Length:	48.00 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			4393.00	
Hydraulic tool	5.00			4398.00	
Packer	5.00			4403.00	20.00 Bottom Of Top Packer
Packer	5.00			4408.00	
Stubb	1.00			4409.00	
Recorder	0.00	8647	Inside	4409.00	
Recorder	0.00	8372	Outside	4409.00	
Perforations	24.00			4433.00	
Bullnose	3.00			4436.00	28.00 Bottom Packers & Anchor
Total Tool Length:	48.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drlg. Co., Inc.

27-4s-33w Rawlins,KS

250 N. Water, Ste 300
Wichita, KS 67202

Franklin 'A' #1-27

Job Ticket: 62281

DST#: 4

ATTN: Steve Miller

Test Start: 2015.05.05 @ 16:25:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

38 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 96.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.78 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5800.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
244.00	GMCO 40%o, 30%g, 30%m	1.200
297.00	GO 70%o, 30%g	4.122
0.00	585' GIP	0.000

Total Length: 541.00 ft Total Volume: 5.322 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

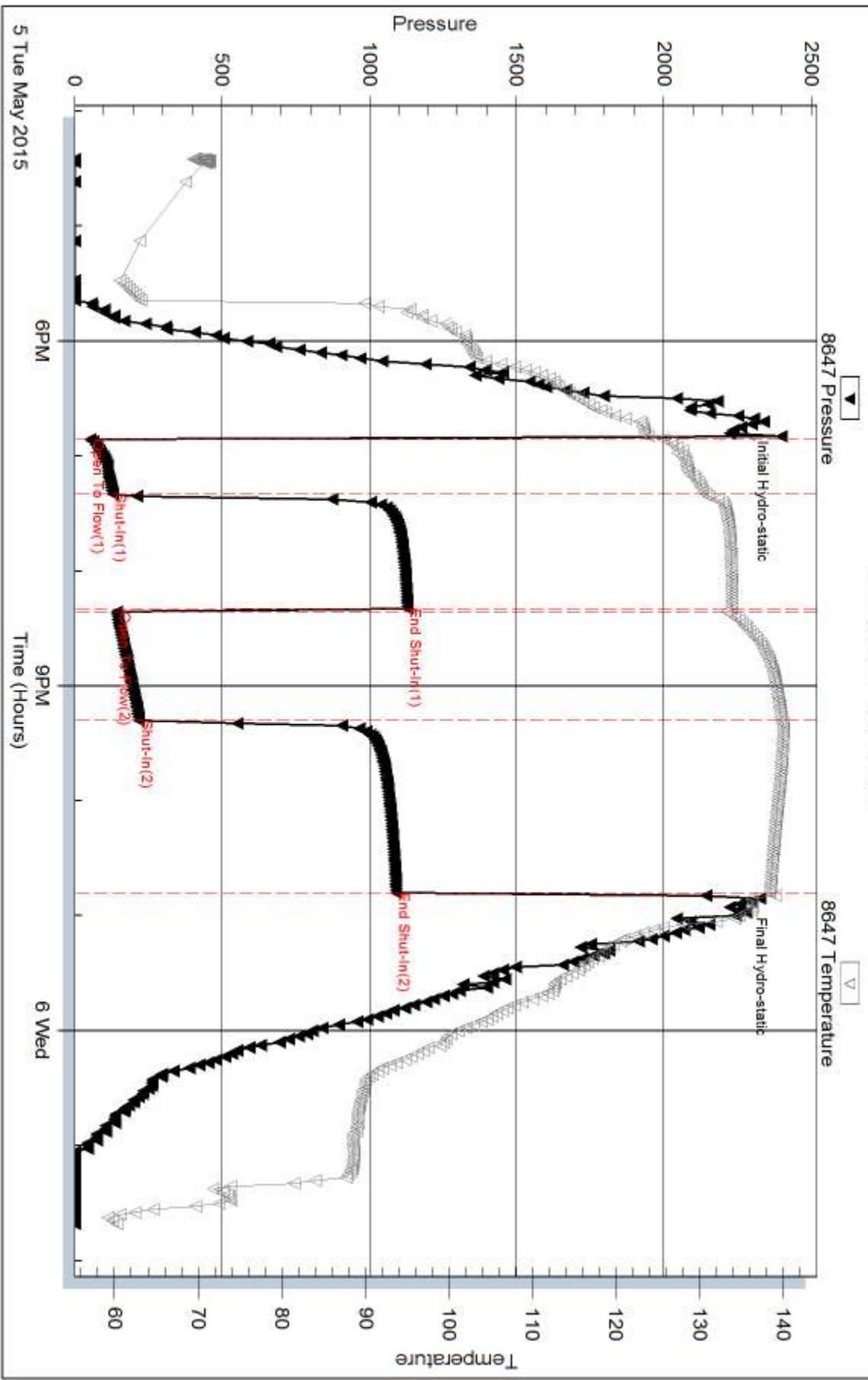
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Gravity 37 @ 70F Corrected = 38

Pressure vs. Time

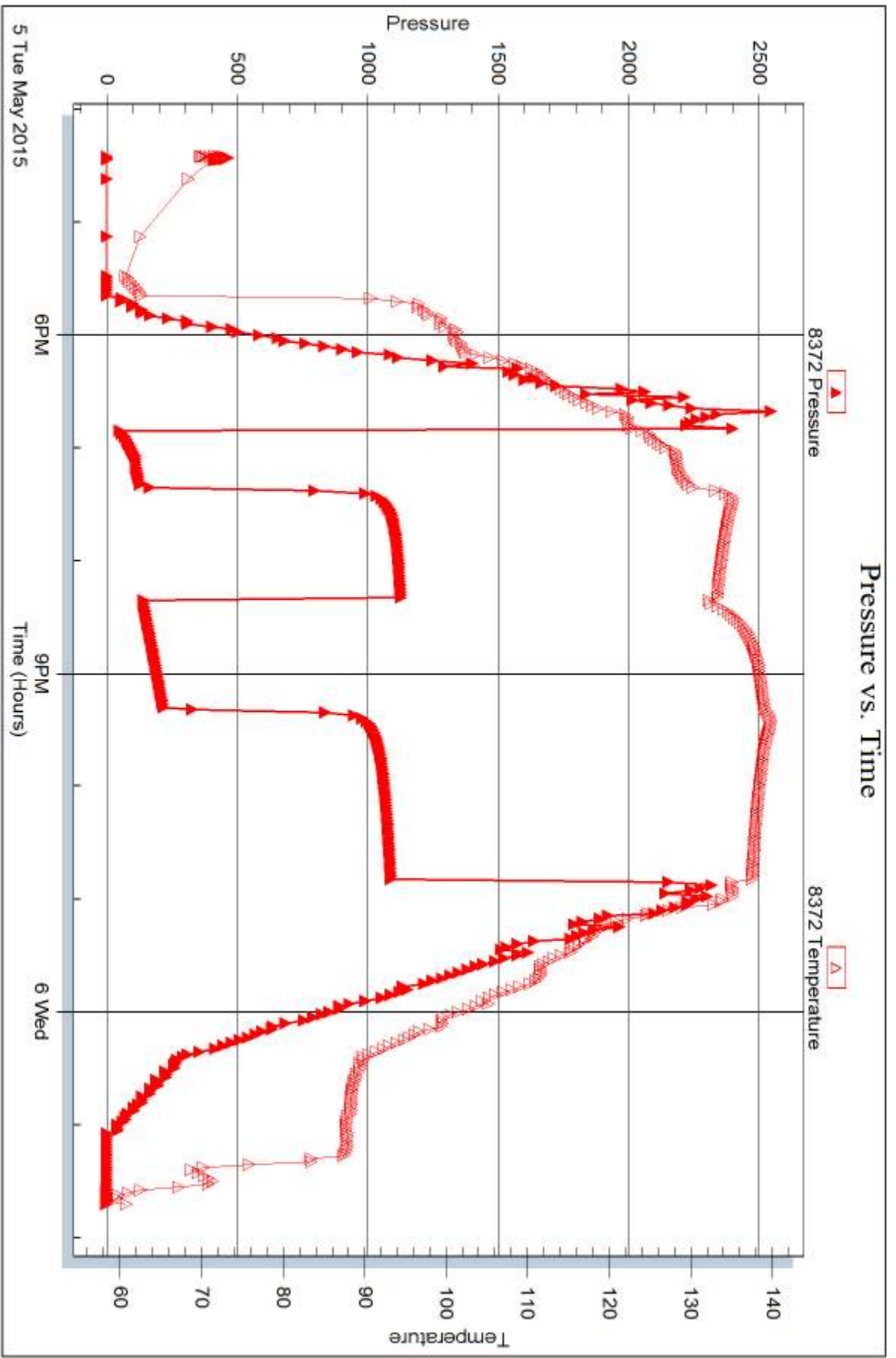


Serial #: 8372

Outside Murfin Drfg. Co., Inc.

Franklin 'A' #1-27

DST Test Number: 4



Trilobite Testing, Inc

Ref. No: 62281

Printed: 2015.05.07 @ 16:40:17



DRILL STEM TEST REPORT

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

250 N. Water, Ste 300
Wichita, KS 67202

ATTN: Steve Miller

Franklin 'A' #1-27

27-4s-33w Rawlins,KS

Start Date: 2015.05.06 @ 11:20:00

End Date: 2015.05.06 @ 18:54:00

Job Ticket #: 62282 DST #: 5

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

Printed: 2015.05.07 @ 16:33:25



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Murfin Drlg. Co., Inc.

27-4s-33w Rawlins,KS

250 N. Water, Ste 300
Wichita, KS 67202

Franklin 'A' #1-27

Job Ticket: 62282

DST#: 5

ATTN: Steve Miller

Test Start: 2015.05.06 @ 11:20:00

GENERAL INFORMATION:

Formation: **Verdigris**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:37:30

Time Test Ended: 18:54:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Brandon Quintana

Unit No: 57

Interval: 4443.00 ft (KB) To 4490.00 ft (KB) (TVD)

Reference Elevations: 3128.00 ft (KB)

Total Depth: 4490.00 ft (KB) (TVD)

3123.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8647

Inside

Press@RunDepth: 82.10 psig @ 4444.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.05.06

End Date:

2015.05.06

Last Calib.:

2015.05.06

Start Time: 11:20:01

End Time:

18:54:00

Time On Btm:

2015.05.06 @ 13:36:30

Time Off Btm:

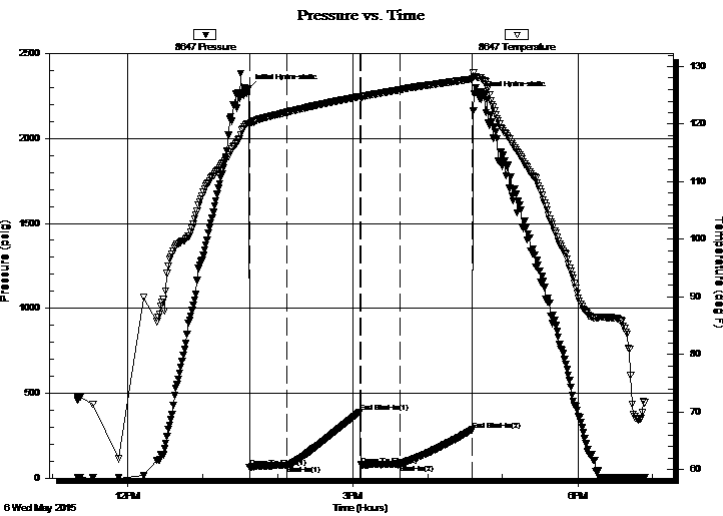
2015.05.06 @ 16:40:30

TEST COMMENT: 30 - IF - Opened w/ surface blow , built to 1"

60 - ISI - No Blow

30 - FF - No Return

60 - FSI - No Blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2294.81	120.06	Initial Hydro-static
1	63.54	120.04	Open To Flow (1)
31	73.05	122.06	Shut-In(1)
89	388.91	124.77	End Shut-In(1)
90	78.08	124.69	Open To Flow (2)
121	82.10	125.96	Shut-In(2)
179	284.35	127.82	End Shut-In(2)
184	2254.24	128.06	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
106.00	100% mud	0.52

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drlg. Co., Inc.

27-4s-33w Rawlins,KS

250 N. Water, Ste 300
Wichita, KS 67202

Franklin 'A' #1-27

Job Ticket: 62282

DST#: 5

ATTN: Steve Miller

Test Start: 2015.05.06 @ 11:20:00

Tool Information

Drill Pipe:	Length: 4181.00 ft	Diameter: 3.80 inches	Volume: 58.65 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: inches	Volume: - bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 248.80 ft	Diameter: 2.25 inches	Volume: 1.22 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	14.80 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	4443.00 ft			Final 58000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	47.00 ft			
Tool Length:	75.00 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			4420.00	
Hydraulic tool	5.00			4425.00	
Jars	5.00			4430.00	
Safety Joint	3.00			4433.00	
Packer	5.00			4438.00	28.00 Bottom Of Top Packer
Packer	5.00			4443.00	
Stubb	1.00			4444.00	
Recorder	0.00	8647	Inside	4444.00	
Recorder	0.00	8372	Outside	4444.00	
Perforations	10.00			4454.00	
Change Over Sub	1.00			4455.00	
Drill Pipe	31.00			4486.00	
Change Over Sub	1.00			4487.00	
Bullnose	3.00			4490.00	47.00 Bottom Packers & Anchor

Total Tool Length: 75.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drlg. Co., Inc.

27-4s-33w Rawlins,KS

250 N. Water, Ste 300
Wichita, KS 67202

Franklin 'A' #1-27

Job Ticket: 62282

DST#: 5

ATTN: Steve Miller

Test Start: 2015.05.06 @ 11:20:00

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: 91.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.39 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6400.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
106.00	100%mud	0.521

Total Length: 106.00 ft Total Volume: 0.521 bbl

Num Fluid Samples: 0

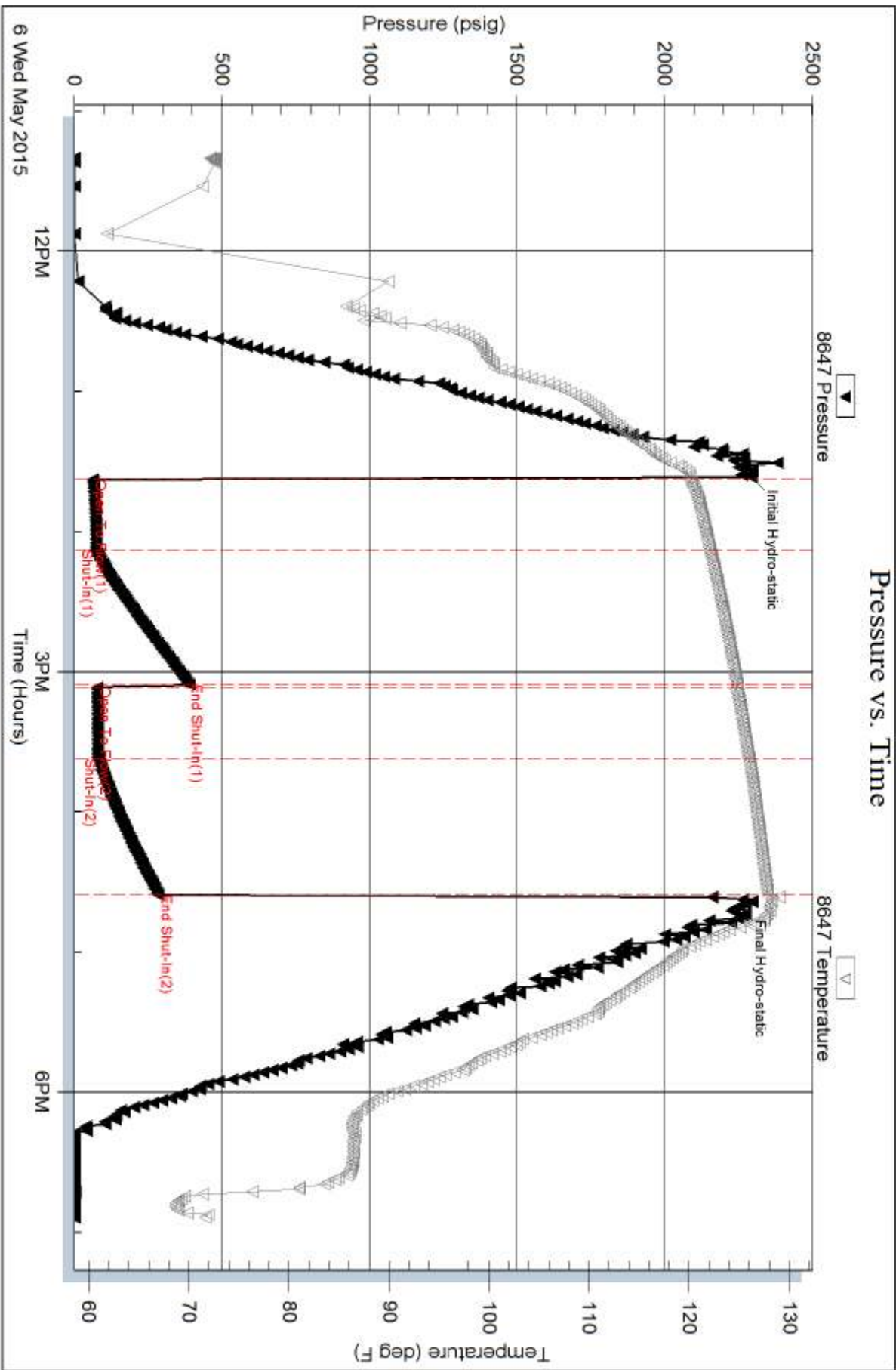
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

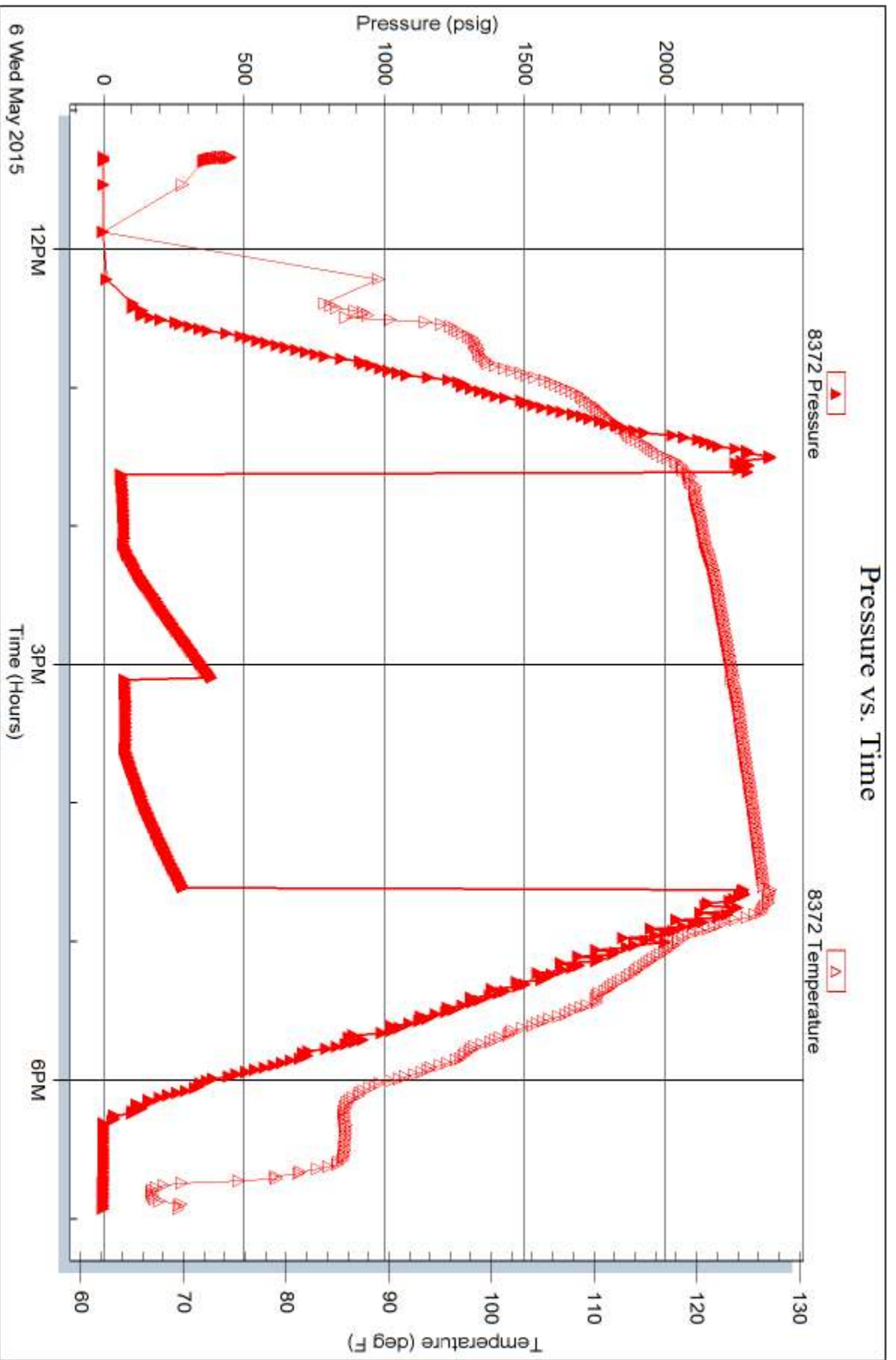


Serial #: 8372

Outside Marlin Drtg. Co., Inc.

Franklin 'A' #1-27

DST Test Number: 5



Trilobite Testing, Inc

Ref. No: 62282

Printed: 2015.05.07 @ 16:33:27



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 62278

4/10

Well Name & No. Franklin 'A' #1-27 Test No. 1 Date 5-2-15
 Company Murfin Drilg. Co., Inc. Elevation 3128 KB 3123 GL
 Address 250 N. Water, STE 300 Wichita, KS 67202
 Co. Rep / Geo. Steve Miller Rig Murfin #7
 Location: Sec. 27 Twp. 4S Rge. 33W Co. Rawlins State KS

Interval Tested 3979-4060 Zone Tested Toronto - LKC "B"
 Anchor Length 81' Drill Pipe Run 3735 Mud Wt. 9.3
 Top Packer Depth 3974 Drill Collars Run 248.8 Vis 53
 Bottom Packer Depth 3979 Wt. Pipe Run — WL 8.8
 Total Depth 4060 Chlorides 5400 ppm System LCM 10
 Blow Description IF - Opened w/ surface blow, built to B.o.B in 7 min
ISI - Return built to 1", died back to 1/2"
FF - Blow built to B.o.B in 6 min.
FSI - No Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>43</u>	<u>OCM w/ a foot of oil on top</u>		<u>2</u>	<u>98</u>	<u>0</u>
<u>1445</u>	<u>MW</u>			<u>79</u>	<u>21</u>
<u>83</u>	<u>GIP</u>	<u>100</u>			

Rec Total 1488 BHT 131 Gravity — API RW .107 @ 59 °F Chlorides 105,000 ppm
 (A) Initial Hydrostatic 1499 Test 1150 T-On Location 3:19 PM
 (B) First Initial Flow 74 Jars 250 T-Started 6:30 PM
 (C) First Final Flow 337 Safety Joint 75 T-Open 8:49 PM
 (D) Initial Shut-In 1262 Circ Sub _____ T-Pulled 12:49 AM
 (E) Second Initial Flow 356 Hourly Standby _____ T-Out 4:00 AM
 (F) Second Final Flow 712 Mileage 82 R.T. 82 Comments _____
 (G) Final Shut-In 1256 Sampler _____
 (H) Final Hydrostatic 1482 Straddle _____
 Initial Open 30 Shale Packer _____
 Initial Shut-In 60 Extra Packer _____
 Final Flow 60 Extra Recorder _____
 Final Shut-In 9 Day Standby _____
 Accessibility _____
 Sub Total 1557 MP/DST Disc't _____

Approved By _____ Our Representative Bond Out

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **62279**

Well Name & No. Franklin A' #1-27 Test No. 2 Date 5-3-15
 Company Murfin Drilg. Co., Inc. Elevation 3128 KB 3123 GL
 Address 250 N. Water, STE 300 67202
 Co. Rep / Geo. Steve Miller Rig Murfin #7
 Location: Sec. 27 Twp. 4S Rge. 33W Co. Rawlins State KS

Interval Tested 4084-4120 Zone Tested LKC "F+G"
 Anchor Length 36' Drill Pipe Run 3831 Mud Wt. 9
 Top Packer Depth 4079 Drill Collars Run 248.8 Vis 47
 Bottom Packer Depth 4084 Wt. Pipe Run — WL 8.8
 Total Depth 4120 Chlorides 6700 ppm System LCM 9
 Blow Description IF- Opened w/ surface blow, built to B.o.B in 27 min.
ISI- Return built to 1 1/2"
FF- Blow built to B.o.B in 26 min.
FSI- Return built to 3", died back to 2"

Rec	Feet of	%gas	%oil	%water	%mud
<u>216</u>	<u>60</u>	<u>20</u>	<u>80</u>		
<u>122</u>	<u>60cm</u>	<u>10</u>	<u>20</u>		<u>70</u>
<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
<u>409</u>	<u>61P</u>	<u>160</u>			
Rec Total <u>338</u>	BHT <u>128</u>	Gravity <u>31</u>	API RW <u> </u>	@ <u> </u> °F	Chlorides <u> </u> ppm

(A) Initial Hydrostatic 2080 Test 1150 T-On Location 2:59 PM
 (B) First Initial Flow 78 Jars 250 T-Started 3:36 PM
 (C) First Final Flow 119 Safety Joint 75 T-Open 5:49 PM
 (D) Initial Shut-In 1309 Circ Sub T-Pulled 9:49 PM
 (E) Second Initial Flow 112 Hourly Standby T-Out 12:31 AM
 (F) Second Final Flow 161 Mileage 82 R.T. 82 Comments
 (G) Final Shut-In 1299 Sampler
 (H) Final Hydrostatic 2015 Straddle
 Shale Packer
 Extra Packer
 Extra Recorder
 Day Standby
 Accessibility
 Sub Total 1557

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

Ruined Shale Packer
 Ruined Packer
 Extra Copies
 Sub Total 0
 Total 1557
 MP/DST Disc't

Approved By _____ Our Representative Burdett

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **62280**

Well Name & No. Franklin A' #1-27 Test No. 3 Date 5-4-15
 Company Murfin Drlg. Co., Inc. Elevation 3128 KB 3123 GL
 Address 250 N. Water, STE 300 Wichita, KS 67202
 Co. Rep / Geo. Steve Miller Rig Murfin #7
 Location: Sec. 27 Twp. 4S Rge. 33W Co. Rawlins State KS

Interval Tested 4164-4200 Zone Tested LKC "J"
 Anchor Length 36' Drill Pipe Run 3896 Mud Wt. 9
 Top Packer Depth 4159 Drill Collars Run 248.8 Vis 47
 Bottom Packer Depth 4164 Wt. Pipe Run — WL 8.8
 Total Depth 4200 Chlorides 6700 ppm System LCM 9
 Blow Description IF- Opened w/ surface blow, built to 3/4"
ISI- No Return
FF- No Blow
FSI- No Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>64</u>	<u>mud</u>				<u>100</u>

Rec Total 64 BHT 125 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 2139 Test 1150 T-On Location 11:22 AM
 (B) First Initial Flow 44 Jars 250 T-Started 11:46 AM
 (C) First Final Flow 54 Safety Joint 75 T-Open 2:04 PM
 (D) Initial Shut-In 106 Circ Sub _____ T-Pulled 5:04 PM
 (E) Second Initial Flow 59 Hourly Standby _____ T-Out 7:02 PM
 (F) Second Final Flow 58 Mileage 82 R.T. 82 Comments _____
 (G) Final Shut-In 93 Sampler _____
 (H) Final Hydrostatic 2059 Straddle _____
 Shale Packer _____ Ruined Shale Packer _____
 Extra Packer _____ Ruined Packer X 320
 Extra Recorder _____ Extra Copies _____
 Initial Open 30 Day Standby _____ Sub Total 320
 Final Flow 30 Accessibility _____ Total 1877
 Final Shut-In 60 Sub Total 1557 MP/DST Disc't _____

Approved By _____ Our Representative Bud Ott

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 62281

Well Name & No. Franklin 'A' #1-27 Test No. 4 Date 5-5-15
 Company Murfin Drilg. Co., Inc. Elevation 3128 KB 3123 GL
 Address 250 N. Water. STE 300 Wichita, KS
 Co. Rep / Geo. Steve Miller Rig Murfin #7
 Location: Sec. 27 Twp. 4S Rge. 33W Co. Rawlins State KS

Interval Tested 4408-4436 Zone Tested Lower Pawnee
 Anchor Length 28' Drill Pipe Run 4157 Mud Wt. 9.3
 Top Packer Depth 4403 Drill Collars Run 248.8 Vis 96
 Bottom Packer Depth 4408 Wt. Pipe Run - WL 8.8
 Total Depth 4436 Chlorides 5800 ppm System LCM 9
 Blow Description IF- Opened w/ surface blow. built to B.o.B in 13 min.
ISI- Return built to 7" over the hour
PF- Blow built to B.o.B in 12 min.
FSI- Return built to 7" over the 90 mins.

Rec	Feet of	%gas	%oil	%water	%mud
<u>297</u>	<u>60</u>	<u>30%</u>	<u>70%</u>		
<u>244</u>	<u>Gmco</u>	<u>30%</u>	<u>40%</u>		<u>30%</u>
<u> </u>	<u> </u>	<u>%</u>	<u>%</u>	<u>%</u>	<u>%</u>
<u> </u>	<u> </u>	<u>%</u>	<u>%</u>	<u>%</u>	<u>%</u>
<u>585</u>	<u>GIP</u>	<u>100%</u>	<u>%</u>	<u>%</u>	<u>%</u>

Rec Total 541 BHT 138 Gravity 38 API RW @ °F Chlorides ppm
 (A) Initial Hydrostatic 2263 Test 1150 T-On Location 4:20 PM
 (B) First Initial Flow 53 Jars 250 T-Started 4:25 PM
 (C) First Final Flow 128 Safety Joint 75 T-Open 6:51 PM
 (D) Initial Shut-In 1129 Circ Sub T-Pulled 10:51 PM
 (E) Second Initial Flow 143 Hourly Standby T-Out 1:42 AM
 (F) Second Final Flow 218 Mileage 82 R.T. 82 Comments
 (G) Final Shut-In 1090 Sampler
 (H) Final Hydrostatic 2258 Straddle Ruined Shale Packer
 Initial Open 30 Shale Packer Ruined Packer
 Initial Shut-In 60 Extra Packer Extra Copies
 Final Flow 60 Extra Recorder Sub Total 0
 Final Shut-In 90 Day Standby Total 1557
 Accessibility MP/DST Disc't
 Sub Total 1557

Approved By _____ Our Representative Burd O'K

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **62282**

4/10

Well Name & No. Franklin 'A' #1-27 Test No. 5 Date 5-6-15
 Company Murfin Drilg. Co., Inc Elevation 3128 KB 3123 GL
 Address 250 N. Water, STE 300 Wichita, KS 67202
 Co. Rep / Geo. Steve Miller Rig Murfin #7
 Location: Sec. 27 Twp. 4S Rge. 33W Co. Rawlins State KS

Interval Tested 4443-4490 Zone Tested Verdigris
 Anchor Length 47' Drill Pipe Run 4181 Mud Wt. 9.1
 Top Packer Depth 4438 Drill Collars Run 248.8 Vis 91
 Bottom Packer Depth 4443 Wt. Pipe Run — WL 8.4
 Total Depth 4490 Chlorides 6400 ppm System LCM 9

Blow Description IF- Opened w/ surface blow, built to 1"
ISI- No Return
FF- No Blow
FSI No Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>106</u>	<u>Mud</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 106 BHT 127 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic 2294 Test 1150 T-On Location 11:16 AM
 (B) First Initial Flow 63 Jars 250 T-Started 11:20 AM
 (C) First Final Flow 73 Safety Joint 75 T-Open 1:39 PM
 (D) Initial Shut-In 388 Circ Sub — T-Pulled 4:39 PM
 (E) Second Initial Flow 78 Hourly Standby — T-Out 6:56 PM
 (F) Second Final Flow 82 Mileage 82 R.T x2 Comments Picked up tool
 (G) Final Shut-In 284 Sampler 82+82 on 5-7-15 @ 3:15 PM
 (H) Final Hydrostatic 2254 Straddle — Ruined Shale Packer —
 Shale Packer — Ruined Packer X2 320+320
 Extra Packer — Extra Copies —
 Initial Open 30 Extra Recorder — Sub Total 640
 Initial Shut-In 60 Day Standby — Total 2279
 Final Flow 30 Accessibility — MP/DST Disc't —
 Final Shut-In 60 Sub Total 1639

Approved By _____ Our Representative Brd Bt

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