



DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co.**

250 N. Water Ste 300
Wichita KS 67202

ATTN: Tom Funk

Scheetz Trust #1-2

2-13s-33w Logan,KS

Start Date: 2014.03.25 @ 11:36:00

End Date: 2014.03.25 @ 20:37:25

Job Ticket #: 56325 DST #: 1

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

Printed: 2014.03.27 @ 10:39:13



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co.

2-13s-33w Logan,KS

250 N. Water Ste 300
Wichita KS 67202

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Job Ticket: 56325

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ATTN: Tom Funk

Test Start: 2014.03.25 @ 11:36:00

GENERAL INFORMATION:

Formation: **Ft.Scott / Johnson**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:47:40

Time Test Ended: 20:37:25

Test Type: Conventional Bottom Hole (Initial)

Tester: Will MacLean

Unit No: 72

Interval: 4561.00 ft (KB) To 4665.00 ft (KB) (TVD)

Reference Elevations: 3112.00 ft (KB)

Total Depth: 4665.00 ft (KB) (TVD)

3101.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

Serial #: 8674 Inside

Press@RunDepth: 120.23 psig @ 4562.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.03.25

End Date:

2014.03.25

Last Calib.:

2014.03.25

Start Time: 11:36:00

End Time:

20:37:25

Time On Btm:

2014.03.25 @ 13:47:25

Time Off Btm:

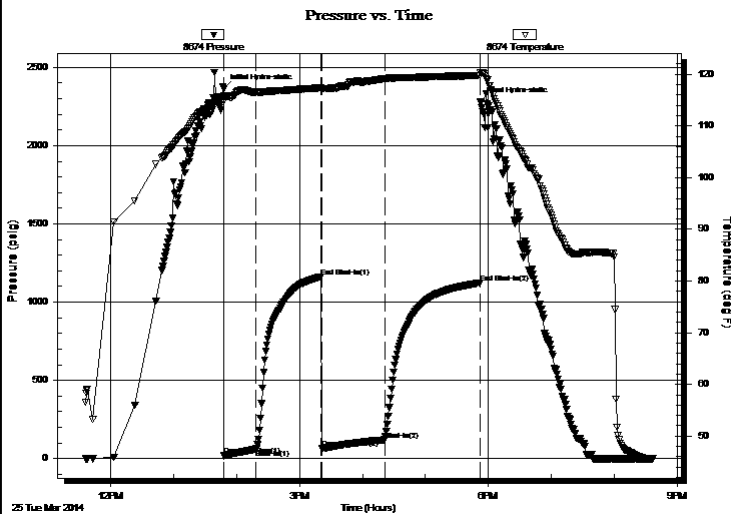
2014.03.25 @ 17:52:24

TEST COMMENT: IF- Weak Surface Blow Built to 5"

IS- No Blow

FF- Weak Surface Blow Built to 10 1/2"

FS- No Blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2361.82	115.79	Initial Hydro-static
1	19.10	114.78	Open To Flow (1)
31	58.86	116.44	Shut-In(1)
93	1161.96	117.39	End Shut-In(1)
95	64.16	117.14	Open To Flow (2)
154	120.23	119.15	Shut-In(2)
245	1122.41	119.78	End Shut-In(2)
245	2282.21	120.36	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	OGWCM 5%oil 12%g 24%w 59%m	0.30
60.00	OGWCM 7%oil 8%g 19%w 66%m	0.30
50.00	WGOCM 3%w 11%g 14%oil 72%m	0.25
71.00	GMCO 5%g 7%m 88%oil	0.39
0.00	247' of GIP	0.00

Gas Rates

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



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Test Type: Conventional Bottom Hole (Initial)

Tester: Will MacLean

Unit No: 72

Interval: 4561.00 ft (KB) To 4665.00 ft (KB) (TVD)

Reference Elevations: 3112.00 ft (KB)

Total Depth: 4665.00 ft (KB) (TVD)

3101.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

Serial #: 8355 Outside

Press@RunDepth: psig @ 4562.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.03.25

End Date:

2014.03.25

Last Calib.:

2014.03.25

Start Time: 11:36:05

End Time:

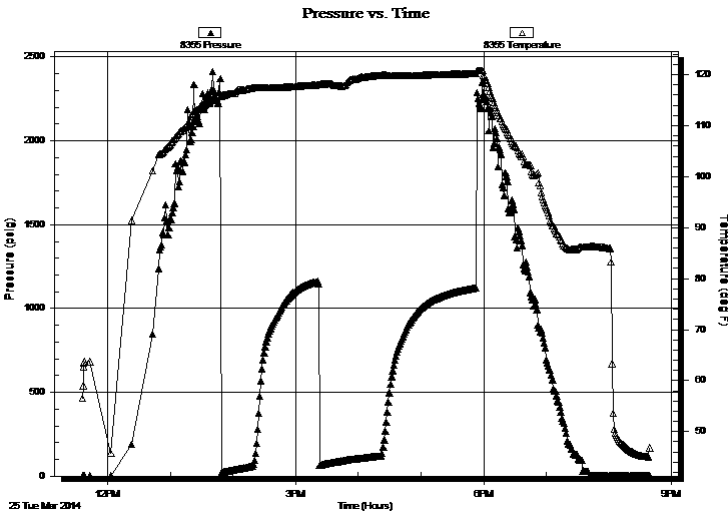
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Time On Btm:

Time Off Btm:

TEST COMMENT: IF- Weak Surface Blow Built to 5"
IS- No Blow
FF- Weak Surface Blow Built to 10 1/2"
FS- No Blow

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
60.00	OGWCM 5%oil 12%g 24%w 59%m	0.30
60.00	OGWCM 7%oil 8%g 19%w 66%m	0.30
50.00	WGOCM 3%w 11%g 14%oil 72%m	0.25
71.00	GMCO 5%g 7%m 88%oil	0.39
0.00	247' of GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co.

2-13s-33w Logan,KS

250 N. Water Ste 300
Wichita KS 67202

Scheetz Trust #1-2

Job Ticket: 56325

DST#: 1

ATTN: Tom Funk

Test Start: 2014.03.25 @ 11:36:00

Tool Information

Drill Pipe:	Length: 4324.00 ft	Diameter: 3.80 inches	Volume: 60.65 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 237.00 ft	Diameter: 2.25 inches	Volume: 1.17 bbl	Weight to Pull Loose: 8000.00 lb
			<u>Total Volume: 61.82 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 80000.00 lb
Depth to Top Packer:	4561.00 ft			Final 80000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	104.00 ft			
Tool Length:	124.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4542.00	
Shut In Tool	5.00			4547.00	
Hydraulic tool	5.00			4552.00	
Packer	5.00			4557.00	20.00 Bottom Of Top Packer
Packer	4.00			4561.00	
Stubb	1.00			4562.00	
Recorder	0.00	8355	Outside	4562.00	
Recorder	0.00	8674	Inside	4562.00	
Perforations	33.00			4595.00	
Change Over Sub	1.00			4596.00	
Drill Pipe	63.00			4659.00	
Change Over Sub	1.00			4660.00	
Bullnose	5.00			4665.00	104.00 Bottom Packers & Anchor

Total Tool Length: 124.00



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FLUID SUMMARY

Murfin Drilling Co.

2-13s-33w Logan,KS

250 N. Water Ste 300
Wichita KS 67202

Scheetz Trust #1-2

Job Ticket: 56325

DST#: 1

ATTN: Tom Funk

Test Start: 2014.03.25 @ 11:36:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

27 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

14600 ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.97 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 8000.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
60.00	OGWCM 5%oil 12%g 24%w 59%m	0.295
60.00	OGWCM 7%oil 8%g 19%w 66%m	0.295
50.00	WGOCM 3%w 11%g 14%oil 72%m	0.246
71.00	GMCO 5%g 7%m 88%oil	0.386
0.00	247' of GIP	0.000

Total Length: 241.00 ft Total Volume: 1.222 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

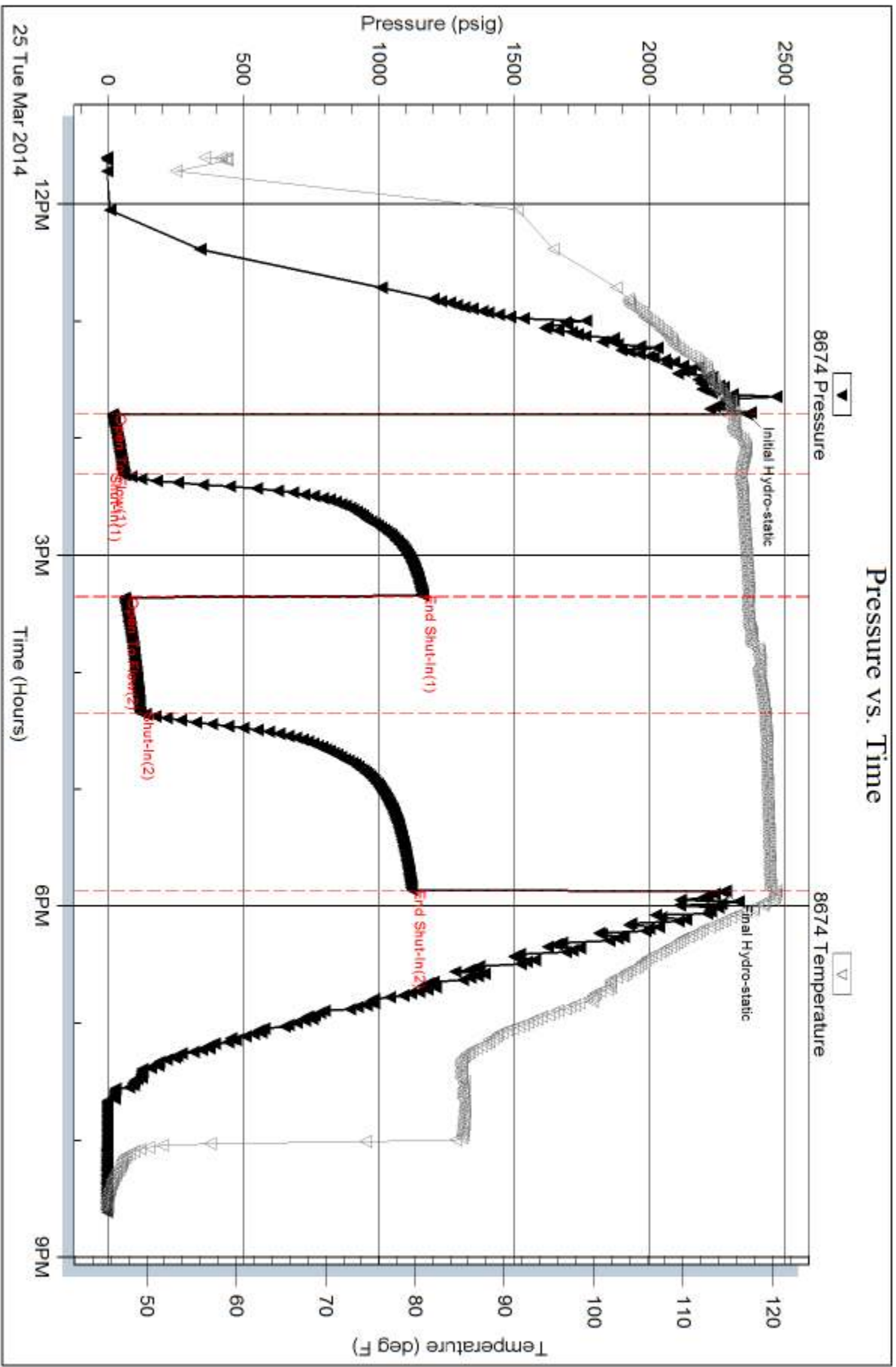
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW is .520 @ 57f = 14600

API is 27 @ 60f = 27

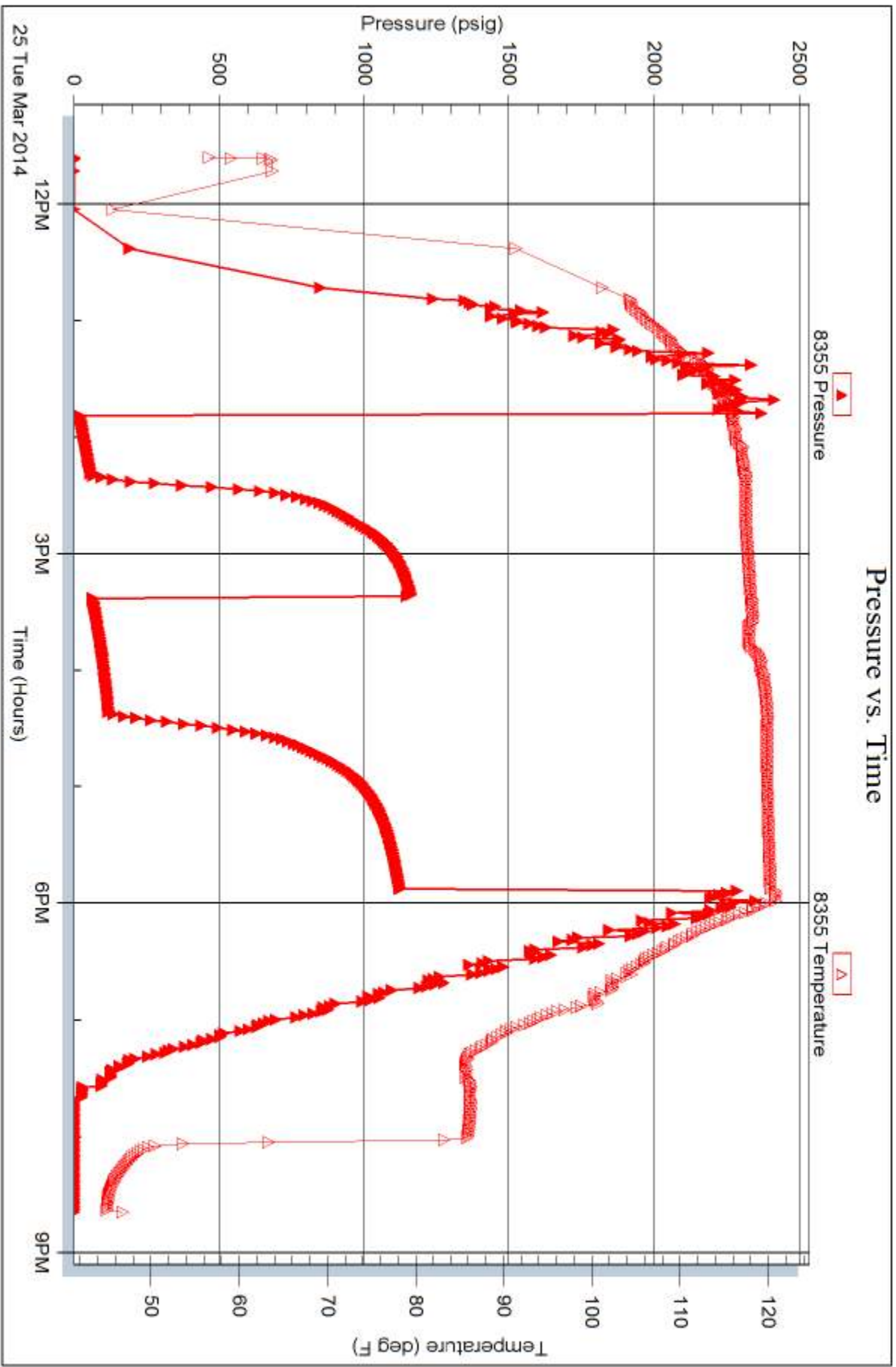


Serial #: 8355

Outside Murfin Drilling Co.

Scheetz Trust #1-2

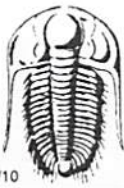
DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 56325

Printed: 2014.03.27 @ 10:39:15



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 56325

Well Name & No. Sheetz Trust #1-2 Test No. DST #1 Date 3-25-14
 Company Murfin Drilling Co. Elevation 3112 KB 3101 GL
 Address 250 N. Water Ste 300 Wichita KS 67202
 Co. Rep / Geo. Tom Funk Rig Murfin 22
 Location: Sec. 2 Twp. 13S Rge. 33W Co. Logan State KS

Interval Tested 4561-4665 Zone Tested Ft. Scott / Johnson
 Anchor Length 104 Drill Pipe Run 4324 Mud Wt. 9.3
 Top Packer Depth 4557 Drill Collars Run 237 Vis 55
 Bottom Packer Depth 4561 Wt. Pipe Run 0 WL 8.0
 Total Depth 4665 Chlorides 8000 ppm System LCM 1016
 Blow Description IF- Weak Surface Blow Built to 5"
ISF- No Blow
FF- Weak Surface Blow Built to 10 1/2"
FSF- No Blow

Rec	Feet of	%gas	%oil	%water	%mud
71	G-MCO	5	88	7	7
50	WGOCM	11	14	3	72
60	OGWCM	8	7	19	66
60	OGWCM	12	5	24	59
	247' of G-IP				

Rec Total 241 BHT 121 Gravity 27 API RW .520 @ 57 °F Chlorides 14,600 ppm
 (A) Initial Hydrostatic 2361 Test 1250 T-On Location 10:06
 (B) First Initial Flow 19 Jars _____ T-Started 11:36
 (C) First Final Flow 58 Safety Joint _____ T-Open 13:47
 (D) Initial Shut-In 1161 Circ Sub NDC T-Pulled 17:52
 (E) Second Initial Flow 64 Hourly Standby _____ T-Out 20:37
 (F) Second Final Flow 120 Mileage 84RIT 130.20 Comments _____
 (G) Final Shut-In 1122 Sampler _____ API's 27e60f = 27
 (H) Final Hydrostatic 2282 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Extra Recorder _____ Sub Total 0
 Day Standby _____ Total 1380.20
 Accessibility _____ MP/DST Disc't _____
 Sub Total 1380.20

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

Approved By [Signature] Our Representative _____

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