



DRILL STEM TEST REPORT

Prepared For: **RMR Operating LLC**

2515 McKinney Ave Ste 900
Dallas TX 75201

ATTN: Doug Davis

Gisick #1

20-18s-17w Rush,KS

Start Date: 2014.09.19 @ 19:29:00

End Date: 2014.09.20 @ 01:38:00

Job Ticket #: 56140 DST #: 1

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
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**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

RMR Operating LLC
2515 McKinney Ave Ste 900
Dallas TX 75201
ATTN: Doug Davis

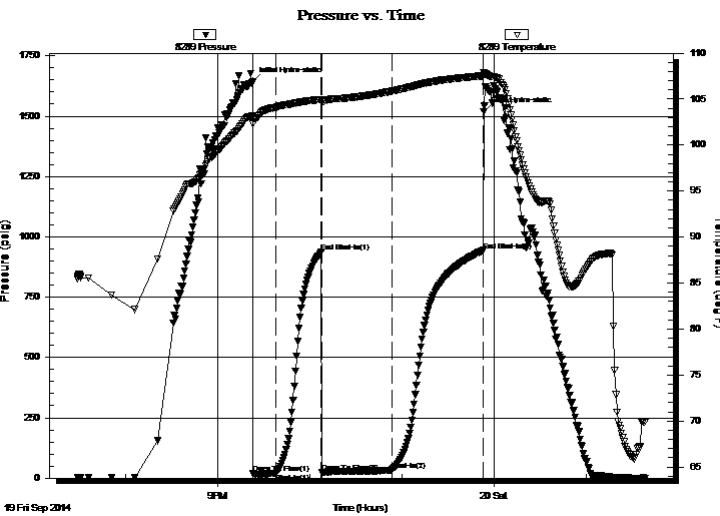
20-18s-17w Rush, KS
Gisick #1
Job Ticket: 56140 **DST#: 1**
Test Start: 2014.09.19 @ 19:29:00

GENERAL INFORMATION:

Formation: **LKC " B "**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 21:23:15
Time Test Ended: 01:38:00
Interval: **3380.00 ft (KB) To 3400.00 ft (KB) (TVD)**
Total Depth: 3400.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole (Initial)
Tester: Jim Svaty
Unit No: 76
Reference Elevations: 1983.00 ft (KB)
1973.00 ft (CF)
KB to GR/CF: 10.00 ft

Serial #: 8289 Outside
Press@RunDepth: 33.05 psig @ 3382.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2014.09.19 End Date: 2014.09.20 Last Calib.: 2014.09.20
Start Time: 19:29:02 End Time: 01:38:00 Time On Btm: 2014.09.19 @ 21:23:00
Time Off Btm: 2014.09.19 @ 23:53:15

TEST COMMENT: 15-IFP- Surface Blow Building to 9 1/2"
30-ISIP- No Blow
45-FFP- Surface Blow Building to 9 1/4"
60-FSIP- No Blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1641.21	103.16	Initial Hydro-static
1	20.90	102.37	Open To Flow (1)
16	21.74	104.12	Shut-In(1)
45	936.08	104.96	End Shut-In(1)
45	22.40	104.68	Open To Flow (2)
91	33.05	105.85	Shut-In(2)
150	943.84	107.53	End Shut-In(2)
151	1518.18	107.91	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
40.00	WOCM 3%w 10%o 87%m	0.56
5.00	CO 100%	0.07
0.00	263 GIP	0.00

Gas Rates

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



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TOOL DIAGRAM

RMR Operating LLC
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ATTN: Doug Davis

20-18s-17w Rush, KS
Gisick #1
Job Ticket: 56140 **DST#: 1**
Test Start: 2014.09.19 @ 19:29:00

Tool Information

Drill Pipe:	Length: 3373.00 ft	Diameter: 3.80 inches	Volume: 47.31 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose:	52000.00 lb
			<u>Total Volume: 47.31 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	14.00 ft			String Weight: Initial	50000.00 lb
Depth to Top Packer:	3380.00 ft			Final	50000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	20.00 ft				
Tool Length:	41.00 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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Change Over Sub	1.00			3360.00	
Shut In Tool	5.00			3365.00	
Hydraulic tool	5.00			3370.00	
Packer	5.00			3375.00	21.00 Bottom Of Top Packer
Packer	5.00			3380.00	
Stubb	1.00			3381.00	
Perforations	1.00			3382.00	
Recorder	0.00	8789	Inside	3382.00	
Recorder	0.00	8289	Outside	3382.00	
Perforations	15.00			3397.00	
Bullnose	3.00			3400.00	20.00 Bottom Packers & Anchor

Total Tool Length: 41.00



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FLUID SUMMARY

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20-18s-17w Rush, KS
Gisick #1
Job Ticket: 56140 **DST#: 1**
Test Start: 2014.09.19 @ 19:29:00

Mud and Cushion Information

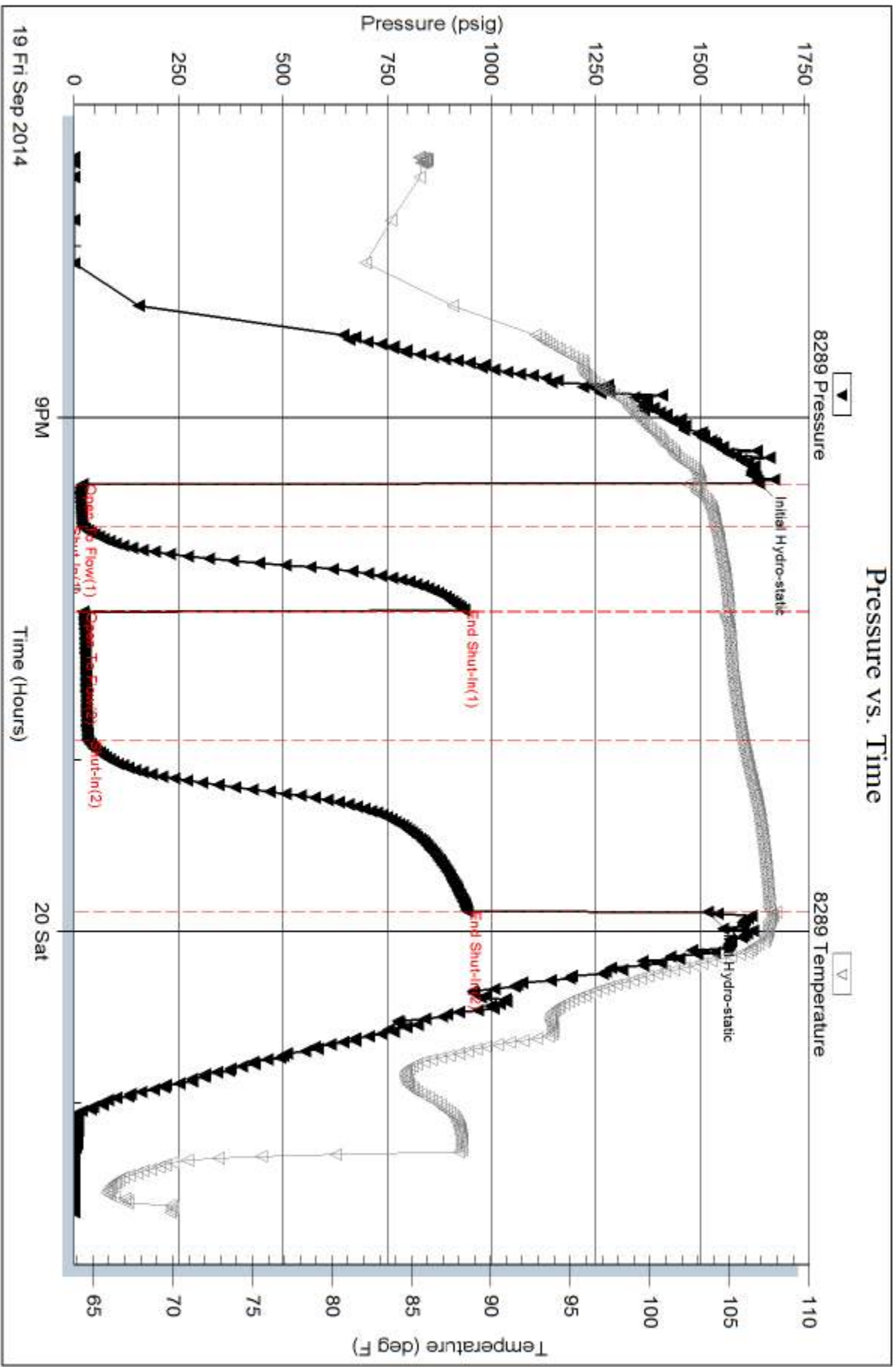
Mud Type: Gel Chem	Cushion Type:	Oil API: 30 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: ppm
Viscosity: 46.00 sec/qt	Cushion Volume: bbl	
Water Loss: 10.36 in ³	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 5600.00 ppm		
Filter Cake: 0.00 inches		

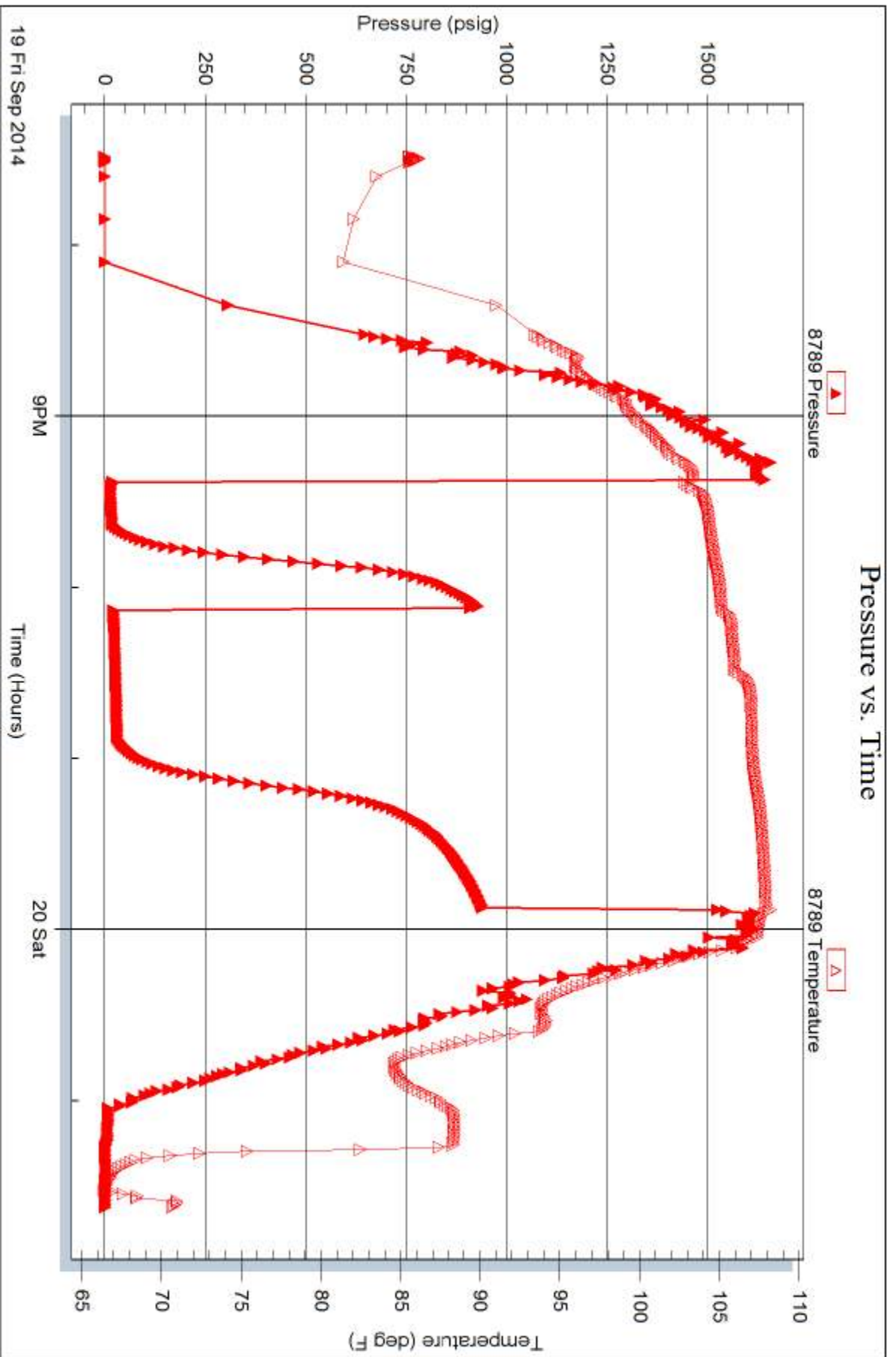
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
40.00	WOCM 3%w 10%o 87%m	0.561
5.00	CO 100%	0.070
0.00	263 GIP	0.000

Total Length: 45.00 ft Total Volume: 0.631 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:







TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 56140

Well Name & No. Asick #1 Test No. 1 Date 9-19-14
 Company RMR Operating LLC Elevation 1983 KB 1973 GL
 Address 2515 McKinney Ave Ste 900 Dallas TX 75201
 Co. Rep / Geo. Doug Rig VAL #6
 Location: Sec. 20 Twp. 18S Rge. 17W Co. Rush State KS

Interval Tested 3380-3400 Zone Tested LKC "B"
 Anchor Length 20 Drill Pipe Run 3373 Mud Wt. 9.2
 Top Packer Depth 3375 Drill Collars Run 0 Vis 46
 Bottom Packer Depth 3380 Wt. Pipe Run 0 WL 10.4
 Total Depth 3400 Chlorides 5600 ppm System LCM 0

Blow Description IFP - Surface Blow Building to 9 1/2 in.
ISIP - No Blow
FFP - Surface Blow Building to 9 1/4 in.
FSIP - No Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>40</u>	<u>WOCM</u>	<u>10</u>	<u>3</u>	<u>87</u>	
<u>5</u>	<u>CO</u>	<u>100</u>			
	<u>263 DIP</u>				

Rec Total 45 BHT 107 Gravity 30 API RW @ _____ ° F Chlorides _____ ppm

(A) Initial Hydrostatic 1641 Test 1150 T-On Location 17:05
 (B) First Initial Flow 20 Jars _____ T-Started 19:29
 (C) First Final Flow 21 Safety Joint _____ T-Open 21:23
 (D) Initial Shut-In 936 Circ Sub _____ T-Pulled 23:53
 (E) Second Initial Flow 22 Hourly Standby _____ T-Out 01:38
 (F) Second Final Flow 33 Mileage 72 RT 93
 (G) Final Shut-In 943 Sampler _____ 93
 (H) Final Hydrostatic 1518 Straddle _____
 Shale Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby 1d 12.75h
 Accessibility _____

Comments Called to P.U. Tool 14:16 - 9-21-14.

Initial Open 15 Ruined Shale Packer _____
 Initial Shut-In 30 Ruined Packer _____
 Final Flow 45 Extra Copies _____
 Final Shut-In 60 Sub Total 800
 Sub Total 1336 Total 2136
 MP/DST Disc't _____

Approved By _____ Our Representative [Signature]
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