

DRILL STEM TEST REPORT

Prepared For: **Charles N Griffin**

PO Box 347
Pratt KS 67124+0347

ATTN: Bruce Reed

Jazmyne #1

34-32S-12W Barber,KS

Start Date: 2016.05.09 @ 10:18:00

End Date: 2016.05.09 @ 16:37:00

Job Ticket #: 65092 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2016.05.12 @ 09:04:36

Charles N Griffin

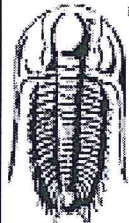
34-32S-12W Barber,KS

Jazmyne #1

DST # 2

Snyderville Sand

2016.05.09



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

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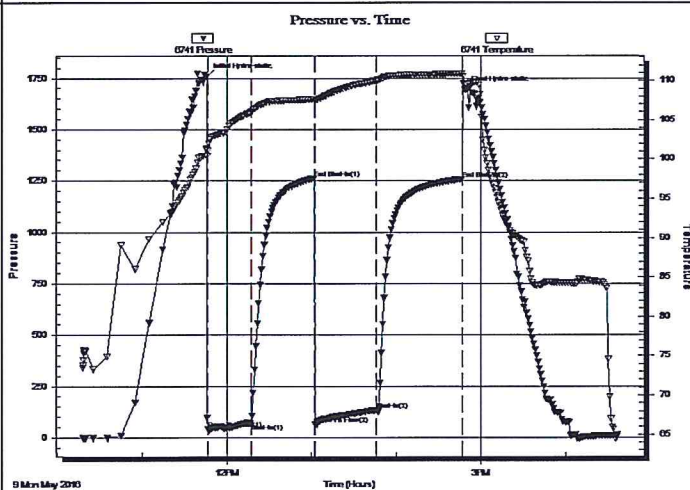
34-32S-12W Barber,KS
Jazmyne #1
 Job Ticket: 65092 DST#: 2
 Test Start: 2016.05.09 @ 10:18:00

GENERAL INFORMATION:

Formation: **Snyderville Sand**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 11:47:00
 Time Test Ended: 16:37:00
 Interval: **3675.00 ft (KB) To 3720.00 ft (KB) (TVD)**
 Total Depth: **3720.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches** Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Ken Swinney
 Unit No: 72
 Reference Elevations: **1594.00 ft (KB)**
1589.00 ft (CF)
 KB to GR/CF: **5.00 ft**

Serial #: 6741 Inside
 Press@RunDepth: 131.86 psig @ 3716.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2016.05.09 End Date: 2016.05.09 Last Calib.: 2016.05.09
 Start Time: 10:18:05 End Time: 16:36:59 Time On Btm: 2016.05.09 @ 11:46:00
 Time Off Btm: 2016.05.09 @ 14:48:30

TEST COMMENT: IF 30 minutes- Blow built to BOB in 1 minute 30 seconds, gas to surface in 18 min
 ISI 45 minutes- Blow back built to 2 inches then died in 30 minutes
 FF 45 minutes- Blow at BOB at open
 FSI 60 minutes- Surface blow back died in 30 minutes



PRESSURE SUMMARY

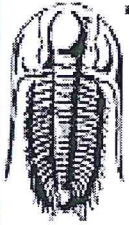
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1756.74	101.30	Initial Hydro-static
1	40.15	101.06	Open To Flow (1)
31	69.02	105.99	Shut-In(1)
76	1259.88	107.65	End Shut-In(1)
77	64.25	107.35	Open To Flow (2)
120	131.86	110.05	Shut-In(2)
181	1257.45	110.89	End Shut-In(2)
183	1692.12	109.85	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
297.00	GCMW Gas 10% Mud 30% Water 60%	3.07

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.13	3.00	6.51
Last Gas Rate	0.13	22.00	13.62
Max. Gas Rate	0.13	22.00	13.62



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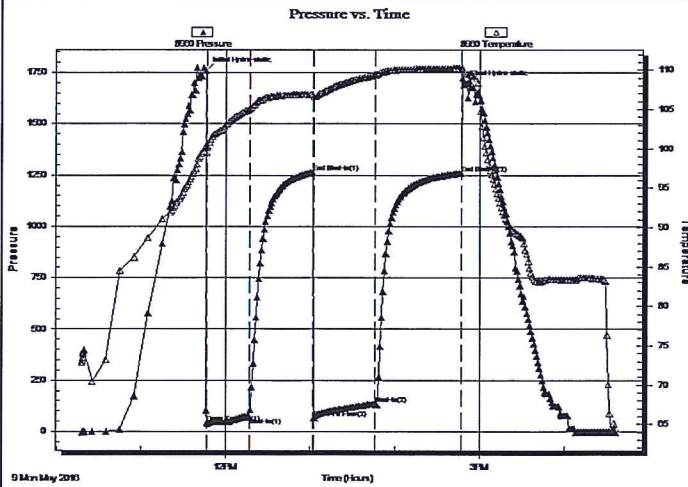
34-32S-12W Barber,KS
Jazmyne #1
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 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Ken Swinney
 Unit No: 72
 Reference Elevations: 1594.00 ft (KB)
 1589.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 8960 **Outside**
 Press@RunDepth: 1259.59 psig @ 3717.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2016.05.09 End Date: 2016.05.09 Last Calib.: 2016.05.09
 Start Time: 10:18:05 End Time: 16:36:59 Time On Btm: 2016.05.09 @ 11:46:00
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 FSI 60 minutes- Surface blow back died in 30 minutes



PRESSURE SUMMARY

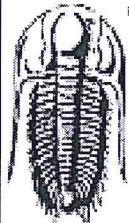
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1758.34	100.44	Initial Hydro-static
1	42.63	100.13	Open To Flow (1)
31	71.13	105.02	Shut-In(1)
76	1261.58	106.92	End Shut-In(1)
77	66.33	106.53	Open To Flow (2)
120	134.73	109.37	Shut-In(2)
181	1259.59	110.22	End Shut-In(2)
183	1693.72	109.83	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
297.00	GCMW Gas 10% Mud 30% Water 60%	3.07

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.13	3.00	6.51
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Max. Gas Rate	0.13	22.00	13.62



**TRILOBITE
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DRILL STEM TEST REPORT

TOOL DIAGRAM

Charles N Griffin
PO Box 347
Pratt KS 67124+0347
ATTN: Bruce Reed

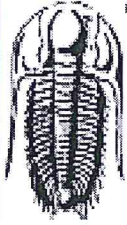
34-32S-12W Barber,KS
Jazmyne #1
Job Ticket: 65092 DST#: 2
Test Start: 2016.05.09 @ 10:18:00

Tool Information

Drill Pipe:	Length: 3553.00 ft	Diameter: 3.80 inches	Volume: 49.84 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose:	60000.00 lb
			<u>Total Volume: 50.43 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial	52000.00 lb
Depth to Top Packer:	3675.00 ft			Final	54000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	45.00 ft				
Tool Length:	72.00 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			3653.00	
Hydraulic tool	5.00			3658.00	
Jars	5.00			3663.00	
Safety Joint	2.00			3665.00	
Top Packer	5.00			3670.00	
Packer	5.00			3675.00	27.00 Bottom Of Top Packer
Anchor	40.00			3715.00	
Recorder	1.00	6741	Inside	3716.00	
Recorder	1.00	8960	Outside	3717.00	
Bullnose	3.00			3720.00	45.00 Anchor Tool
Total Tool Length:	72.00				



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FLUID SUMMARY

Charles N Griffin

34-32S-12W Barber,KS

PO Box 347
Pratt KS 67124+0347

Jazmyne #1

Job Ticket: 65092

DST#: 2

ATTN: Bruce Reed

Test Start: 2016.05.09 @ 10:18:00

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:

53000 ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
297.00	GCMW Gas 10% Mud 30% Water 60%	3.073

Total Length: 297.00 ft

Total Volume: 3.073 bbl

Num Fluid Samples: 0

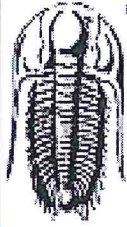
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



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GAS RATES

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Jazmyne #1
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Test Start: 2016.05.09 @ 10:18:00

Gas Rates Information

Temperature: 59 (deg F)
Relative Density: 0.65
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
1	25	0.13	3.00	6.51
1	30	0.13	6.00	7.63
2	10	0.13	14.00	10.63
2	20	0.13	18.00	12.13
2	30	0.13	20.00	12.88
2	40	0.13	22.00	13.62
2	45	0.13	22.00	13.62

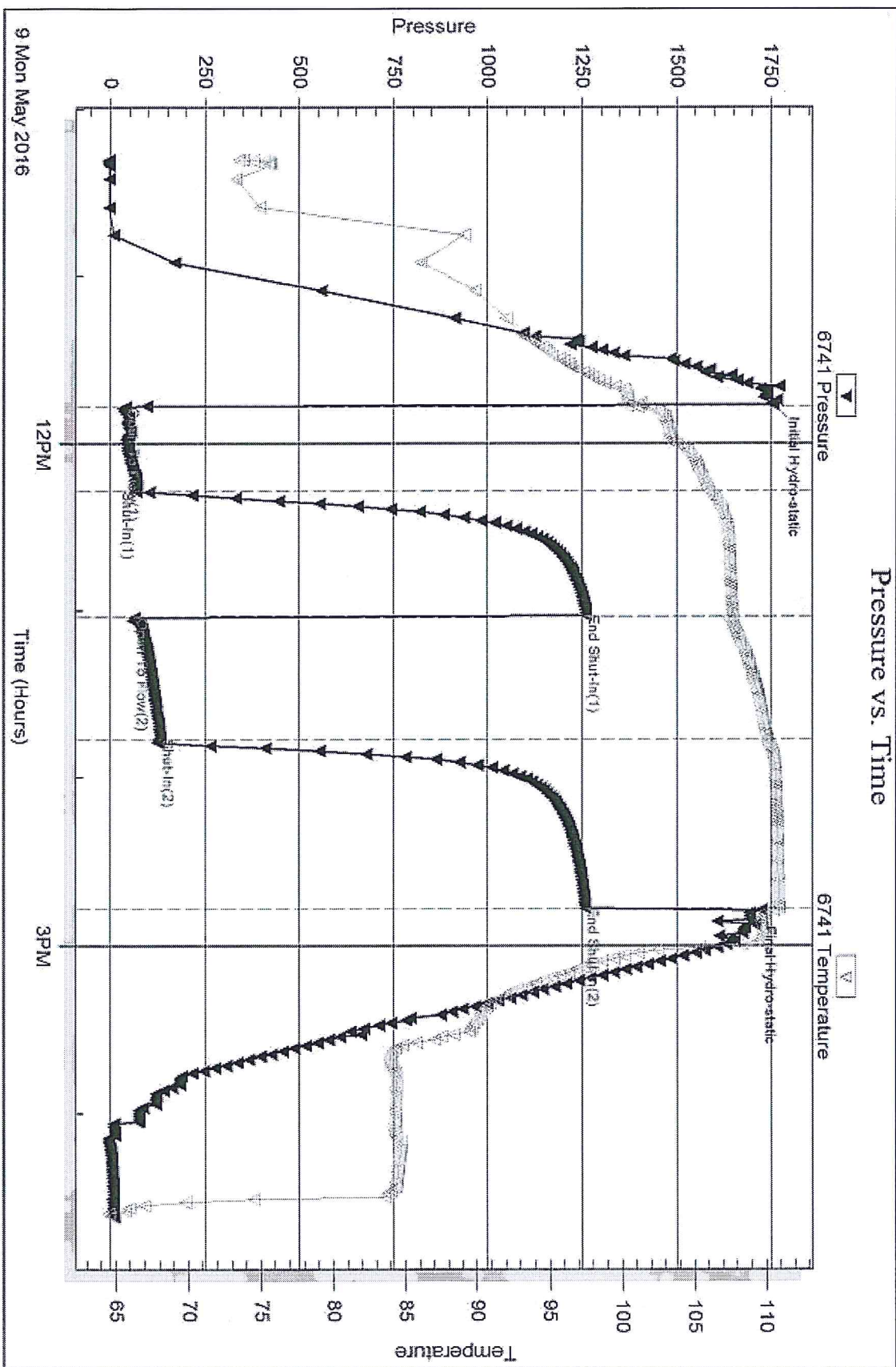
Serial #: 6741

Inside

Charles N Griffin

Jazmyne #1

DST Test Number: 2

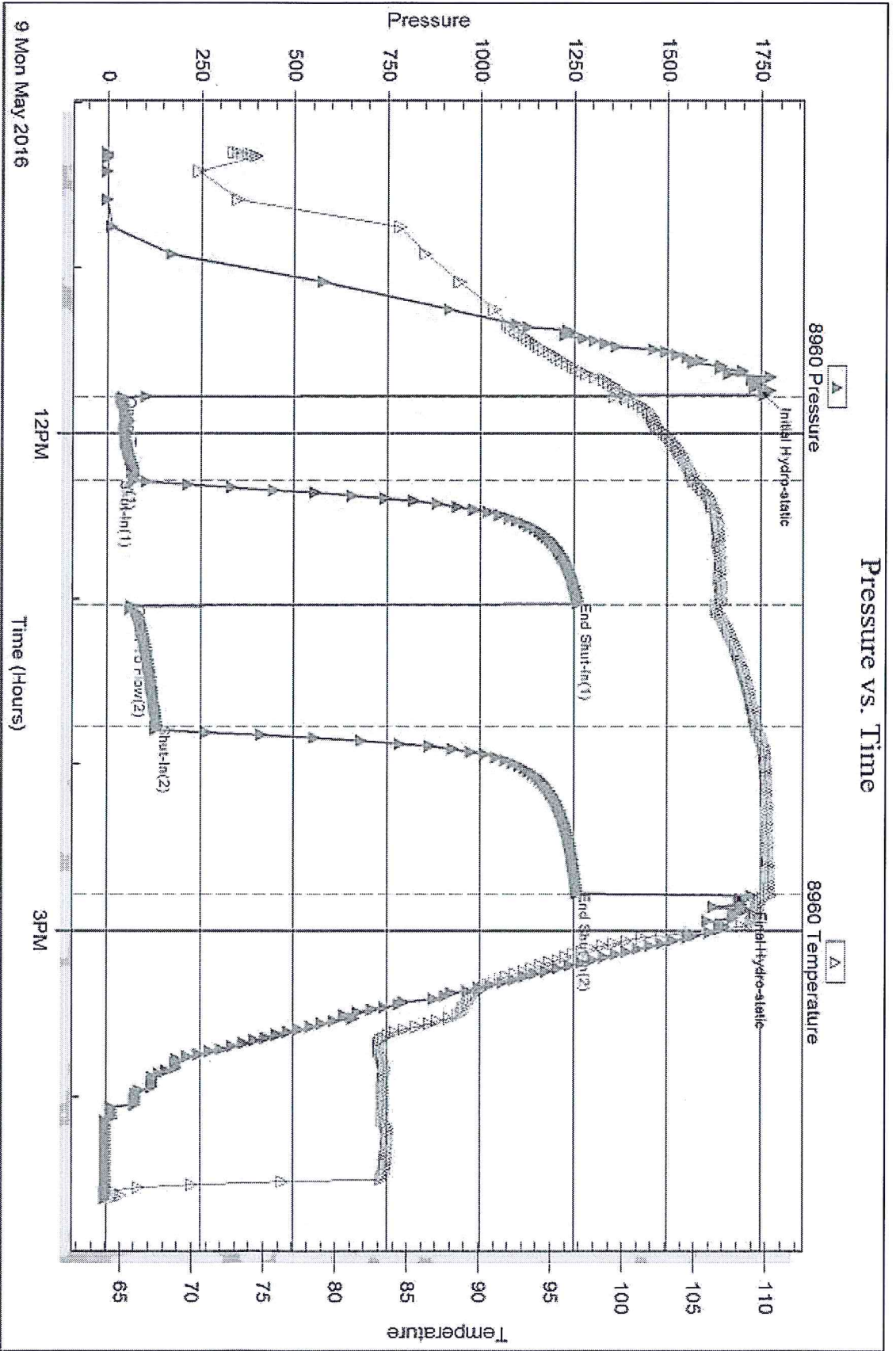


Serial #: 8960

Outside Charles N Griffin

Jazmyne #1

DST Test Number: 2



Tribble Testing, Inc

Ref. No: 65092

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