



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Samuel Gary Jr & Assoc.

20 17s 12w Barton KS

1515 Wynkoop Ste 700
Denver CO 80202

Palmer Trust # 1-20

ATTN: Clayton Camozzi

Job Ticket: 52261

DST#: 1

Test Start: 2013.10.14 @ 05:34:00

GENERAL INFORMATION:

Formation: **Plattsmouth**

Deviated: No Whipstock: 1891.00 ft (KB)

Time Tool Opened: 07:59:15

Time Test Ended: 14:32:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Jim Svaty

Unit No: 54

Interval: 2975.00 ft (KB) To 3000.00 ft (KB) (TVD)

Reference Elevations: 1891.00 ft (KB)

Total Depth: 3000.00 ft (KB) (TVD)

1883.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 6668 Outside

Press @ Run Depth: 18.93 psig @ 2977.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.10.14

End Date:

2013.10.14

Last Calib.: 2013.10.14

Start Time: 05:34:02

End Time:

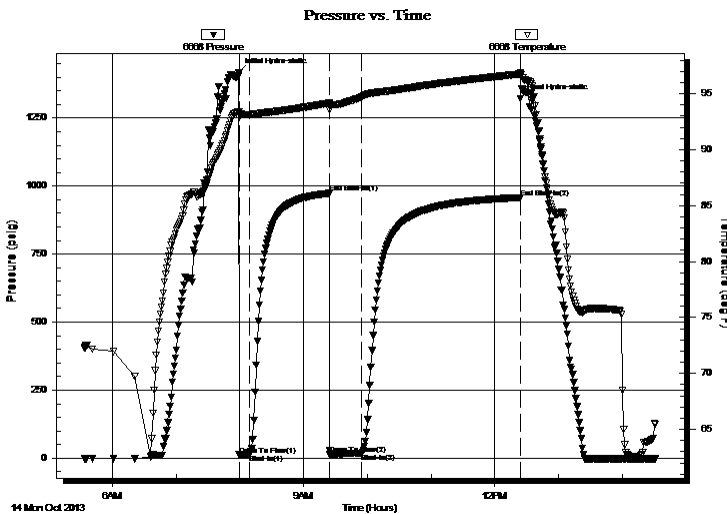
14:31:45

Time On Btm: 2013.10.14 @ 07:59:00

Time Off Btm: 2013.10.14 @ 12:24:15

TEST COMMENT: 10-IFP- Weak Surface Blow
75-ISIP- No Blow
30-FFP- Weak Surface Blow
150-FSIP- No Blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1417.96	93.35	Initial Hydro-static
1	12.08	92.86	Open To Flow (1)
10	14.83	93.12	Shut-In(1)
85	973.62	94.16	End Shut-In(1)
86	15.50	93.90	Open To Flow (2)
116	18.93	94.73	Shut-In(2)
265	958.00	96.76	End Shut-In(2)
266	1322.87	96.90	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud 100% Show of Oil	0.02

Gas Rates

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



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FLUID SUMMARY

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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: bbl		
Water Loss: 8.76 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 5200.00 ppm			
Filter Cake: 0.50 inches			

Recovery Information

Recovery Table

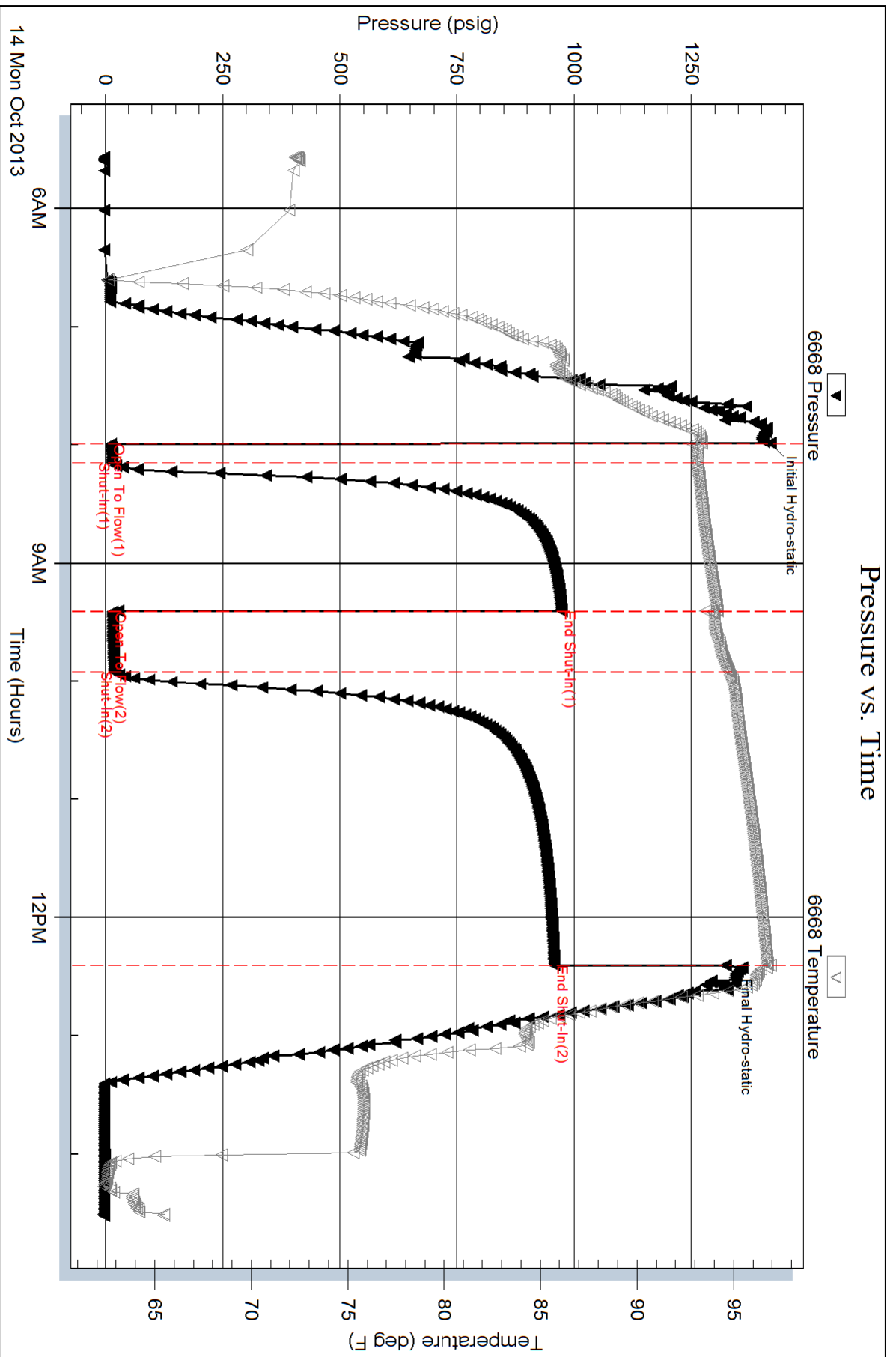
Length ft	Description	Volume bbl
5.00	Mud 100% Show of Oil	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments: SAMPLER - 500ml Mud 250 psi



Serial #: 8289

Fluid

Samuel Gary Jr & Assoc.

Palmer Trust # 1-20

DST Test Number: 1

