



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Mull Drilling Co Inc

1700 N Waterfront PKWY
B# 1200 Wichita, Ks
67206
ATTN: Phil Askey

3-18s-45w Kiowa, Colo

APC Tallman #3-3

Job Ticket: 44397

DST#: 4

Test Start: 2011.10.02 @ 01:25:45

GENERAL INFORMATION:

Formation: **Miss - Spergan**

Deviated: No Whipstock: 0.00 ft (KB)

Time Tool Opened: 03:34:15

Time Test Ended: 10:45:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Shane McBride

Unit No: 55

Interval: 4855.00 ft (KB) To 4890.00 ft (KB) (TVD)

Total Depth: 4890.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 3997.00 ft (KB)

3986.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: 6667 Outside

Press @ Run Depth: 204.91 psig @ 4856.00 ft (KB)

Start Date: 2011.10.02

End Date:

2011.10.02

Start Time: 01:25:45

End Time:

10:20:30

Capacity: 8000.00 psig

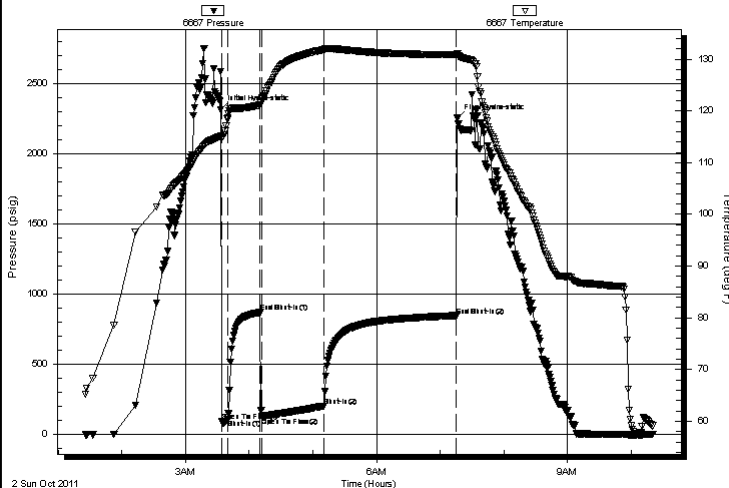
Last Calib.: 2011.10.02

Time On Btm: 2011.10.02 @ 03:32:45

Time Off Btm: 2011.10.02 @ 07:16:15

TEST COMMENT: 7" in blow
No return
B.O.B. in 9 1/2 min
1 1/4" in return

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2315.76	115.07	Initial Hydro-static
2	97.66	114.63	Open To Flow (1)
7	106.38	118.68	Shut-In(1)
38	870.42	121.15	End Shut-In(1)
40	127.13	122.40	Open To Flow (2)
98	204.91	131.88	Shut-In(2)
223	847.97	130.86	End Shut-In(2)
224	2252.89	131.03	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
124.00	s m & o c w 5% m 5% o 90% w tr/of gas	0.61
124.00	g m & o c w 20% g 10% m 30% o 40% w	1.19
186.00	g m & o c w 20% g 20% m 25% o 35% w	2.61
50.00	s g o c m 5% g 20% o 75% m	0.70
0.00	72' gas in pipe	0.00

Gas Rates

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

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3-18s-45w Kiowa, Colo

1700 N Waterfront PKWY

APC Tallman #3-3

B# 1200 Wichita, Ks

Job Ticket: 44397

DST#: 4

67206

Test Start: 2011.10.02 @ 01:25:45

ATTN: Phil Askey

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

31500 ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.96 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3900.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
124.00	s m & o c w 5%m 5%o 90%w tr/of gas	0.610
124.00	g m & o c w 20%g 10%m 30%o 40%w	1.193
186.00	g m & o c w 20%g 20%m 25%o 35%w	2.609
50.00	s g o c m 5%g 20%o 75%m	0.701
0.00	72' gas in pipe	0.000

Total Length: 484.00 ft

Total Volume: 5.113 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: rw .291 @ 50*f = 31,500 chlor

Serial #: 6667

Outside Mull Drilling Co Inc

APC Tallman #3-3

DST Test Number: 4

