



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Deutscher Oil Operations

27-12s-20w Ellis KS

130 Ave
Ellis KS, 67637

Armbrister 1-27

ATTN: Richard Bell

Job Ticket: 52195

DST#: 1

Test Start: 2013.05.19 @ 03:27:00

GENERAL INFORMATION:

Formation: **Lansing "C"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:27:30

Time Test Ended: 10:09:39

Test Type: Conventional Bottom Hole (Initial)

Tester: Cody Bloedorn

Unit No: 41

Interval: 3551.00 ft (KB) To 3584.00 ft (KB) (TVD)

Reference Elevations: 2215.00 ft (KB)

Total Depth: 3584.00 ft (KB) (TVD)

2210.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8734 Outside

Press @ Run Depth: 89.49 psig @ 3552.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.05.19

End Date: 2013.05.19

Last Calib.: 2013.05.19

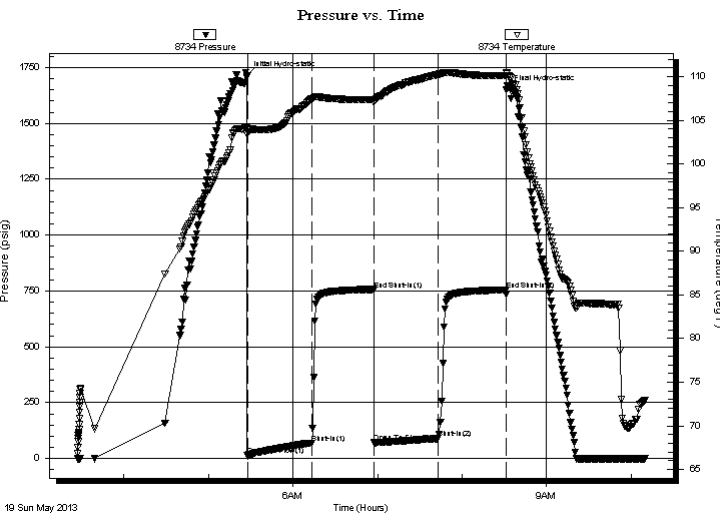
Start Time: 03:27:01

End Time: 10:09:40

Time On Btm: 2013.05.19 @ 05:27:20

Time Off Btm: 2013.05.19 @ 08:31:39

TEST COMMENT: 45 - IF- 5 1/4" blow
45 - IS- Surface blow , died in 27 minutes
45 - FF- 3/4" blow
45 - FS- No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1713.44	104.19	Initial Hydro-static
1	12.84	103.50	Open To Flow (1)
46	69.04	107.44	Shut-In(1)
90	755.02	107.39	End Shut-In(1)
91	71.59	107.05	Open To Flow (2)
136	89.49	110.28	Shut-In(2)
184	754.48	110.12	End Shut-In(2)
185	1652.53	110.47	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
62.00	WM, 40%W, 60%M	0.30
62.00	MW, 20%M, 80%W	0.30
45.00	VSCOMW, 5%O, 40%M, 55%W	0.63
2.00	Free Oil, 100%O	0.03

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: 65.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.60 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2600.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
62.00	WM, 40%W, 60%M	0.305
62.00	MW, 20%M, 80%W	0.305
45.00	VSCOMW, 5%O, 40%M, 55%W	0.631
2.00	Free Oil, 100%O	0.028

Total Length: 171.00 ft

Total Volume: 1.269 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

