



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Deutsch Oil Co.

35/1s/36w Rawlins KS

8100 E 22nd St.
Wichita, KS 67226

Bernita 'A' #1-35

Job Ticket: 62845

DST#: 1

ATTN: Keith Reavis

Test Start: 2015.08.30 @ 10:10:00

GENERAL INFORMATION:

Formation: **Lans. "B"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:05:15

Time Test Ended: 18:11:30

Test Type: Conventional Bottom Hole (Initial)

Tester: James Winder

Unit No: 83

Interval: 4280.00 ft (KB) To 4332.00 ft (KB) (TVD)

Reference Elevations: 3320.00 ft (KB)

Total Depth: 4332.00 ft (KB) (TVD)

3310.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

Serial #: 8791

Inside

Press @ Run Depth: 585.49 psig @ 4281.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.08.30

End Date:

2015.08.30

Last Calib.:

2015.08.30

Start Time: 10:10:05

End Time:

18:11:29

Time On Btm:

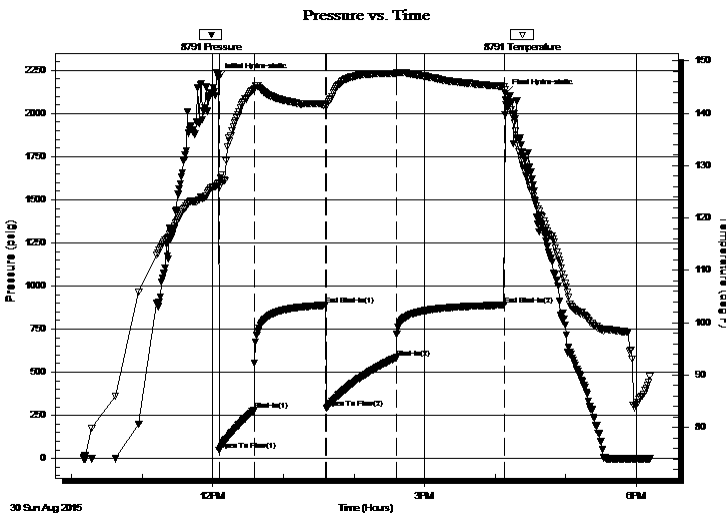
2015.08.30 @ 12:05:00

Time Off Btm:

2015.08.30 @ 16:08:30

TEST COMMENT: 30 - IF: Blow built to BOB (11") at 5 min.
60 - IS: No blow back
60 - FF: Blow built to BOB at 7 min.
90 - FS: No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2208.04	126.61	Initial Hydro-static
1	49.54	125.77	Open To Flow (1)
30	281.88	144.52	Shut-In(1)
91	889.30	141.41	End Shut-In(1)
92	292.27	141.27	Open To Flow (2)
151	585.49	147.61	Shut-In(2)
243	889.88	145.12	End Shut-In(2)
244	2115.35	142.48	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
770.00	SMCW w/trace oil 94%w, 6%m	10.80
250.00	MCW w/trace oil 86%w, 14%m	3.51
185.00	WM w/trace oil 54%m, 46%w	2.60
45.00	WCM w/oil spots 70%m, 29%w, 1%o	0.63

Gas Rates

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



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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:

23500 ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 600.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
770.00	SMCW w/trace oil 94%w , 6%m	10.801
250.00	MCW w/trace oil 86%w , 14%m	3.507
185.00	WM w/trace oil 54%m, 46%w	2.595
45.00	WCM w/oil spots 70%m, 29%w , 1%o	0.631

Total Length: 1250.00 ft Total Volume: 17.534 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW = .210 ohms @ 97.1 deg F

Chlorides = 23,500 ppm

