



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

CMX
1700 N. Waterfront
Pkw y. Bldg. 300 B
Wichita KS. 67202
ATTN: Ken LeBlanc

Sec. 21 - 13 s. - 14 w./ Russell

Woelk # 1-21

Job Ticket: 62504

DST#: 1

Test Start: 2015.01.05 @ 14:56:00

GENERAL INFORMATION:

Formation: **LAN "A - C"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:06:45

Time Test Ended: 23:02:45

Test Type: Conventional Bottom Hole (Initial)

Tester: Bob Hamel

Unit No: 72

Interval: 3008.00 ft (KB) To 3052.00 ft (KB) (TVD)

Reference Elevations: 1850.00 ft (KB)

Total Depth: 3052.00 ft (KB) (TVD)

1842.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 6772 Inside

Press @ RunDepth: 242.82 psig @ 3012.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.01.05 End Date: 2015.01.05

Last Calib.: 2015.01.05

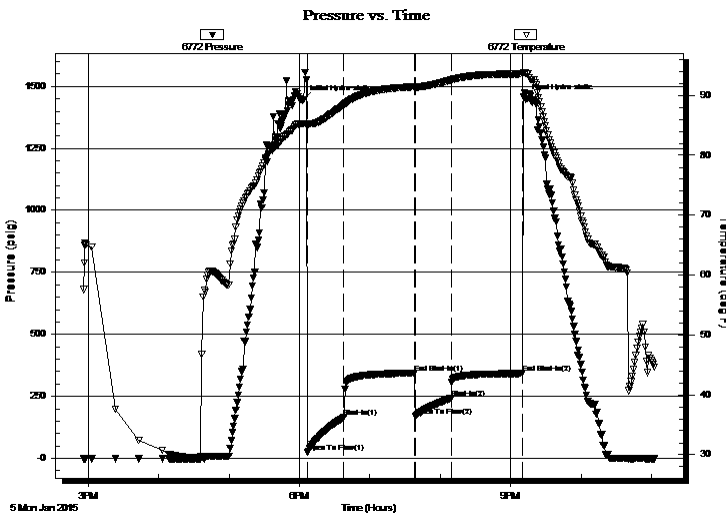
Start Time: 14:56:05 End Time: 23:02:44

Time On Btm: 2015.01.05 @ 18:03:15

Time Off Btm: 2015.01.05 @ 21:13:00

TEST COMMENT: I.F. - 30 - 1/2" INT. BLOW BUILT TO B.O.B. IN 3 MIN.
I.S.I. - 60 - W.S.B.B. STARTED @ 9 MIN. NO BUILD
F.F. - 30 - 1/2" INT. BLOW BUILT TO B.O.B. IN 10 MIN.
F.S.I. - 60 - NO B.B.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1446.64	85.29	Initial Hydro-static
4	25.33	85.16	Open To Flow (1)
35	165.58	88.39	Shut-In(1)
95	344.05	91.44	End Shut-In(1)
96	171.04	91.40	Open To Flow (2)
126	242.82	92.54	Shut-In(2)
187	342.42	93.58	End Shut-In(2)
190	1448.96	93.70	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	M 100%	0.07
486.00	M,C,W, 15%M 85%W	6.82
0.00	SHOW OF FREE OIL IN TEST TOOL	0.00

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
Mud Weight: 9.00 lb/gal
Viscosity: 48.00 sec/qt
Water Loss: 4.50 in³
Resistivity: 0.00 ohm.m
Salinity: 5000.00 ppm
Filter Cake: 1.00 inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psig

Oil API: deg API
Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	M 100%	0.070
486.00	M,C,W, 15%M 85%W	6.817
0.00	SHOW OF FREE OIL IN TEST TOOL	0.000

Total Length: 491.00 ft Total Volume: 6.887 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: R.W. = .91 @ 27.5 DEG.

CHLORIDES = 19,000 P.P.M.

Pressure vs. Time

