



**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: 62505

DST#: 2

Test Start: 2015.01.06 @ 17:56:00

GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 20:00:00
 Time Test Ended: 01:44:00
 Interval: **3250.00 ft (KB) To 3271.00 ft (KB) (TVD)**
 Total Depth: 3271.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Bob Hamel
 Unit No: 72
 Reference Elevations: 1850.00 ft (KB)
 1842.00 ft (CF)
 KB to GR/CF: 8.00 ft

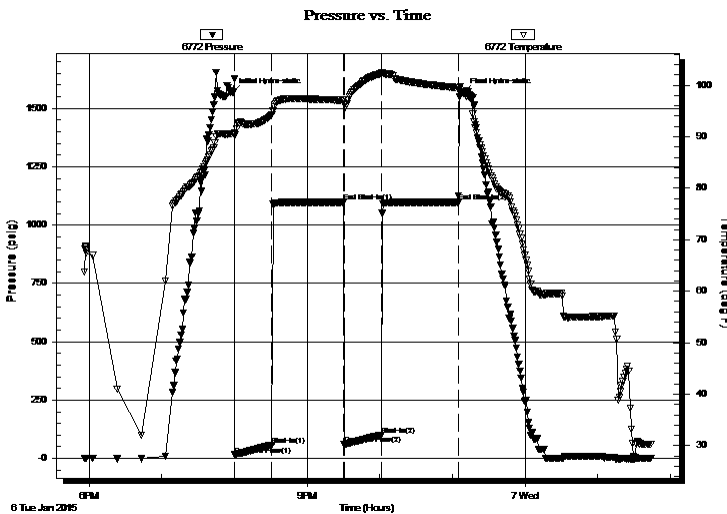
Serial #: 6772

Inside

Press @ Run Depth: 100.47 psig @ 3253.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2015.01.06 End Date: 2015.01.07 Last Calib.: 2015.01.07
 Start Time: 17:56:05 End Time: 01:43:59 Time On Btm: 2015.01.06 @ 19:57:45
 Time Off Btm: 2015.01.06 @ 23:09:15

TEST COMMENT: I.F. - 30 - 1/2" INT. BLOW BUILT TO B.O.B IN 22 MIN.
 I.S.I. - 60 - NO B.B.
 F.F. - 30 - W.S.B. STARTED @ 1 1/2 MIN. BUILT TO B.O.B. IN 25 MIN.
 F.F. - 60 - NO B.B.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1568.09	90.61	Initial Hydro-static
3	15.31	90.45	Open To Flow (1)
33	57.73	94.23	Shut-In(1)
92	1097.68	97.06	End Shut-In(1)
93	58.83	96.45	Open To Flow (2)
124	100.47	102.21	Shut-In(2)
187	1097.62	99.52	End Shut-In(2)
192	1565.76	98.79	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
6.00	SOCM 10%O 90%M	0.08
110.00	SO & MCW 5%M 15%O 80%W	1.54
20.00	Clean Oil, 100%	0.28

Gas Rates

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

* Recovery from multiple tests



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FLUID SUMMARY

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Woelk # 1-21
Job Ticket: 62505 **DST#: 2**
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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: 52.00 sec/qt	Cushion Volume: bbl		
Water Loss: 4.50 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 8000.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
6.00	SOCM 10%O 90%M	0.084
110.00	SO & MCW 5%M 15%O 80%W	1.543
20.00	Clean Oil, 100%	0.281

Total Length: 136.00 ft Total Volume: 1.908 bbl

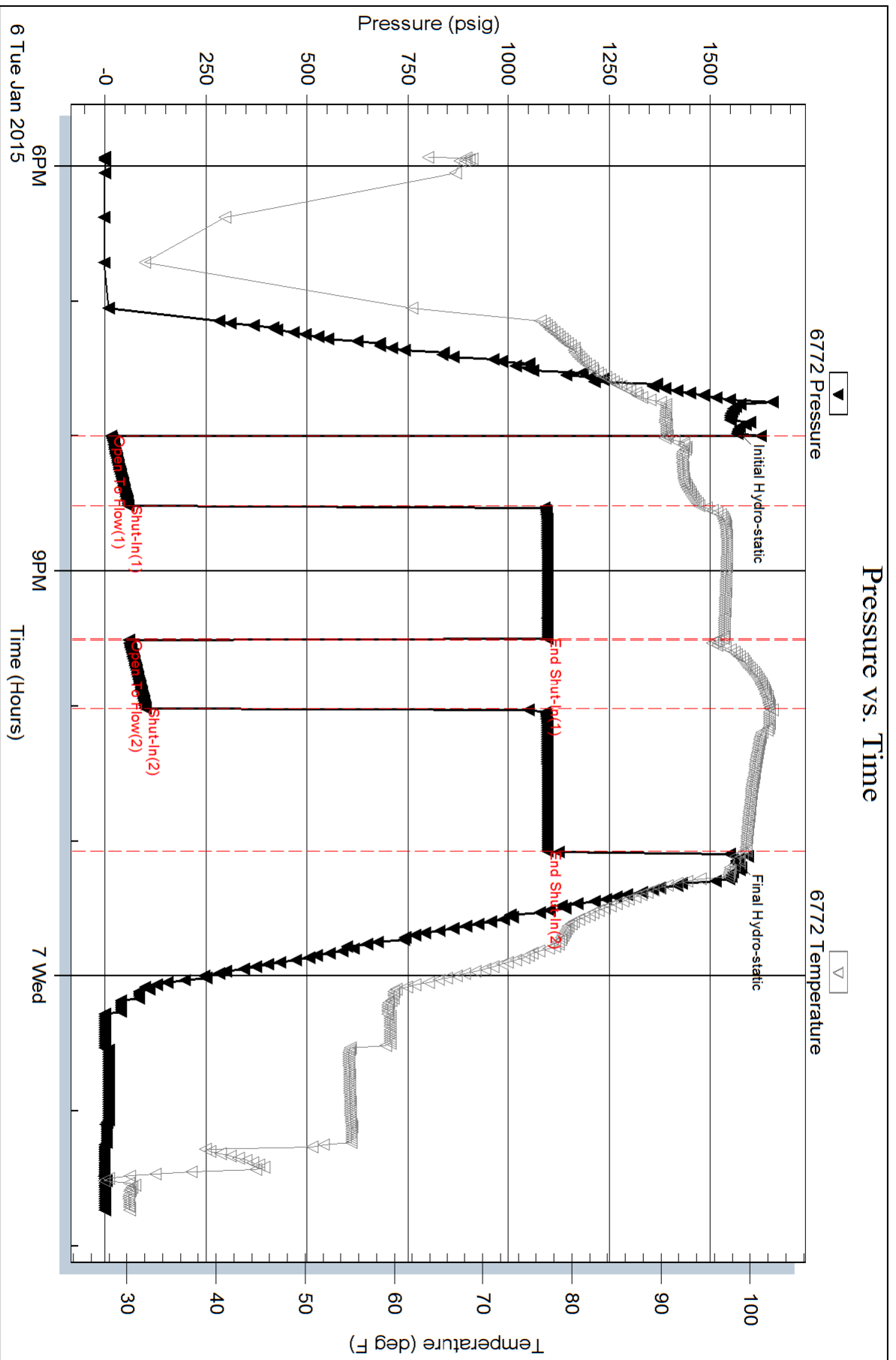
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments: R.W. = 0.56 @ 26.6 DEG.

CHLORIDES = 33,000 P.P.M.
CORRECTED OIL GRAVITY = 33 API @ 60 DEG.

Pressure vs. Time



Serial #: 8167

Outside CMX

Woelk # 1-21

DST Test Number: 2

