

CONFIDENTIAL

ORIGINAL


TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Shakespeare Oil Co. Inc.

Moore-Teeter #1-10

202 West Main ST
Salem IL 62881

10-13-32 Logan, Ks

Job Ticket: 18078

DST#: 1

ATTN: Shakespeare Oil Co. Iem IL 62881

Test Start: 2004.02.02 @ 14:49:56

KCC

FEB 23 2004

GENERAL INFORMATION:

Formation: **Lansing A**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:21:25

Time Test Ended: 22:12:55

Interval: 4019.00 ft (KB) To 4048.00 ft (KB) (TVD)

Total Depth: 4048.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole

Tester:

Unit No: 25

Reference Elevations: 3036.00 ft (KB)

3025.00 ft (CF)

KB to GR/CF: 11.00 ft

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Serial #: 6720

Press@RunDepth: 209.82 psig @ ft (KB)

Start Date: 2004.02.02 End Date: 2004.02.02

Start Time: 14:49:56 End Time: 22:12:55

Capacity: 7000.00 psig

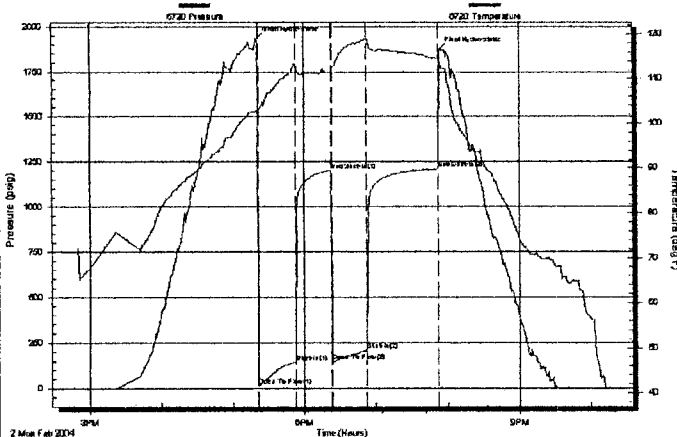
Last Calib.: 1899.12.30

Time On Btm: 2004.02.02 @ 17:19:55

Time Off Btm: 2004.02.02 @ 19:53:25

TEST COMMENT: B.O.B. 24 min
 No return
 1/2" in @ open built to 8" in
 No return

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1928.88	102.89	Initial Hydro-static
2	15.11	102.81	Open To Flow (1)
33	146.07	113.37	Shut-In(1)
63	1201.02	111.43	End Shut-In(1)
63	148.99	111.44	Open To Flow (2)
93	209.82	118.80	Shut-In(2)
153	1209.89	114.72	End Shut-In(2)
154	1866.61	114.24	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
300.00	Water 100%w	2.00
120.00	w c m 20%w 80% m	1.68

Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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Moore-Teeter #1-10

202 West Main ST
Salem IL 62881

10-13-32 Logan, Ks

Job Ticket: 18079

DST#: 2

ATTN: Shakespeare Oil Co. Item IL 62881

Test Start: 2004.02.03 @ 13:30:43

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GENERAL INFORMATION:

Formation: **Lans H**
 Deviated: **No Whipstock:** ft (KB)
 Time Tool Opened: 15:57:12
 Time Test Ended: 20:31:42

Interval: **4168.00 ft (KB) To 4194.00 ft (KB) (TVD)**
 Total Depth: **4194.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches** Hole Condition: **Fair**

Test Type: **Conventional Bottom Hole**
 Tester: **Shane McBride**
 Unit No: **25**

Reference Elevations: **3036.00 ft (KB)**
3025.00 ft (CF)
 KB to GR/CF: **11.00 ft**

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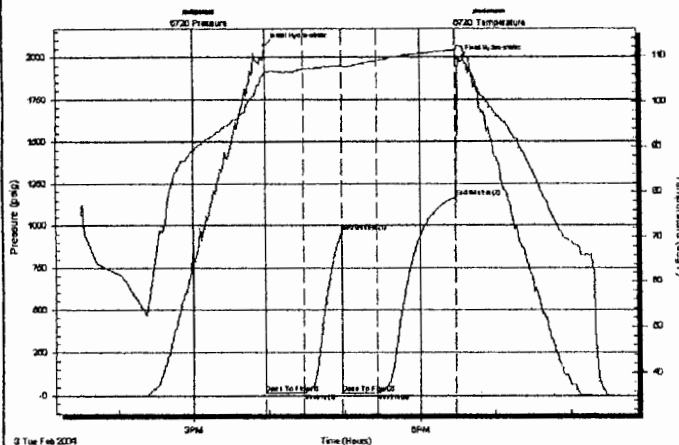
Serial #: 6720

Inside

Press@RunDepth: **17.26 psig @ 4169.00 ft (KB)**
 Start Date: **2004.02.03** End Date: **2004.02.03**
 Start Time: **13:30:43** End Time: **20:31:42**

Capacity: **7000.00 psig**
 Last Calib.: **1899.12.30**
 Time On Btm: **2004.02.03 @ 15:56:42**
 Time Off Btm: **2004.02.03 @ 18:31:12**

TEST COMMENT: **Weak blow died in 25 min.**
No return
No blow
No return

Pressure vs. Time


PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2066.39	106.78	Initial Hydro-static
1	13.61	106.59	Open To Flow (1)
31	14.78	107.13	Shut-In (1)
61	964.77	107.96	End Shut-In (1)
62	15.26	107.72	Open To Flow (2)
90	17.26	109.00	Shut-In (2)
152	1171.24	111.37	End Shut-In (2)
155	1989.39	112.19	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
3.00	v s o c m 2 % o 98 % m	0.01

Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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Shakespeare Oil Co. Inc.

Moore-Teeter #1-10

FEB 23 2004

202 West Main ST
Salem IL 62881

10-13-32 Logan, Ks

Job Ticket: 18080

DST # 3

ATTN: Shakespeare Oil Co. Iem IL 62881

Test Start: 2004.02.04 @ 04:30:24

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GENERAL INFORMATION:

Formation: Lans I

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:10:23

Time Test Ended: 11:33:23

Interval: 4194.00 ft (KB) To 4227.00 ft (KB) (TVD)

Total Depth: 4227.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

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Test Type: Conventional Bottom Hole

Tester: Shane McBride

Unit No: 25

Reference Elevations: 3036.00 ft (KB)

3025.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: 6720

Inside

Press@RunDepth: 16.83 psig @ 4195.00 ft (KB)

Start Date: 2004.02.04

End Date:

2004.02.04

Start Time: 04:30:24

End Time:

11:33:23

Capacity: 7000.00 psig

Last Calib.: 1899.12.30

Time On Btm: 2004.02.04 @ 07:09:53

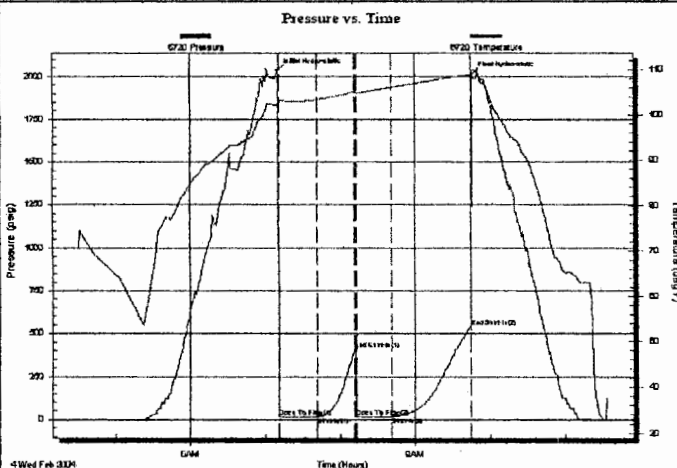
Time Off Btm: 2004.02.04 @ 09:45:23

TEST COMMENT: Weak blow died in 18 min.

No return

No blow

No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2030.16	102.85	Initial Hydro-static
1	13.67	102.86	Open To Flow (1)
32	15.53	103.45	Shut-In (1)
62	406.04	105.06	End Shut-In (1)
63	16.09	104.88	Open To Flow (2)
91	16.83	106.11	Shut-In (2)
155	537.05	108.93	End Shut-In (2)
156	2010.30	109.87	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2.00	mud 100% m	0.01

Gas Rates

	Choke (Inches)	Pressure (psig)	Gas Rate (Mcf/d)
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Shakespeare Oil Co. Inc.

Moore-Tester #1-10

FEB 23 2004

202 West Main ST
Salem IL 62881

10-13-32 Logan, Ks

Job Ticket: 18081

DST#4

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ATTN: Shakespeare Oil Co. lem IL 62881

Test Start: 2004.02.04 @ 17:17:26

GENERAL INFORMATION:

Formation: **Lans J**
 Deviated: **No** Whipstock: **ft (KB)**
 Time Tool Opened: **19:36:55**
 Time Test Ended: **23:33:55**

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Test Type: **Conventional Bottom Hole**Tester: **Shane McBride**Unit No: **25**Interval: **4227.00 ft (KB) To 4249.00 ft (KB) (TVD)**Total Depth: **4249.00 ft (KB) (TVD)**Hole Diameter: **7.88 inches** Hole Condition: **Fair**Reference Elevations: **3036.00 ft (KB)****3025.00 ft (CF)**KB to GR/CF: **11.00 ft**FEB 25 2004
KCC WICHITASerial #: **6720**

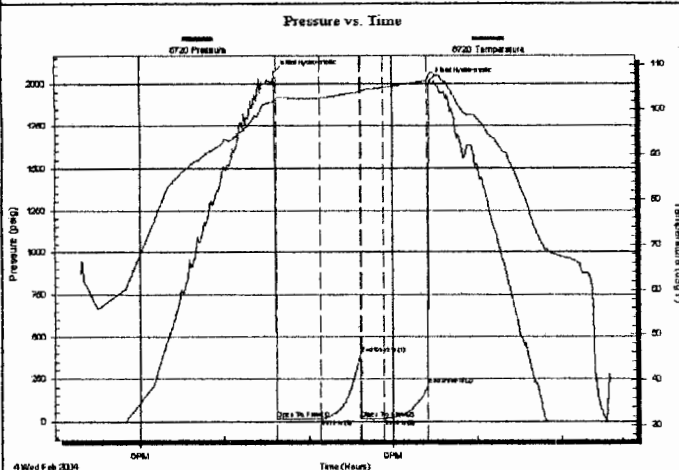
Inside

Press@RunDepth: **15.89 psig @ 4228.00 ft (KB)**Start Date: **2004.02.04**

End Date:

2004.02.04Capacity: **7000.00 psig**Last Calib.: **1899.12.30**Start Time: **17:17:26**

End Time:

23:33:55Time On Btm: **2004.02.04 @ 19:35:55**Time Off Btm: **2004.02.04 @ 21:26:55**TEST COMMENT: **Weak blow died in 26 min.****No return****No blow****No return**

PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2063.41	102.08	Initial Hydro-static
1	13.67	102.51	Open To Flow (1)
33	14.86	102.59	Shut-In (1)
61	396.45	103.97	End Shut-In (1)
62	15.55	103.91	Open To Flow (2)
78	15.89	104.88	Shut-In (2)
109	212.17	106.37	End Shut-In (2)
111	2013.57	107.98	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
3.00	mud w/oil spots 100% m	0.01

Gas Rates

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

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DRILL STEM TEST REPORT

Shakespeare Oil Co. Inc.

202 West Main ST
Salem IL 62881

ATTN: Shakespeare Oil Co. lem IL 62881

Moore-Teeter #1-10

10-13-32 Logan, Ks

Job Ticket: 18082

Test Start: 2004.02.05 @ 10:00:30

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DST#: 5

GENERAL INFORMATION:

Formation: Lans K

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:58:29

Time Test Ended: 16:30:29

Interval: 4252.00 ft (KB) To 4289.00 ft (KB) (TVD)

Total Depth: 4289.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

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Test Type: Conventional Bottom Hole

Tester: Shane McBride

Unit No: 25

Reference Elevations: 3036.00 ft (KB)

3025.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: 6720

Inside

Press@RunDepth: 62.50 psig @ 4253.00 ft (KB)

Start Date: 2004.02.05

End Date:

2004.02.05

Start Time: 10:00:30

End Time:

16:30:29

Capacity: 7000.00 psig

Last Calib.: 1899.12.30

Time On Btm: 2004.02.05 @ 11:57:29

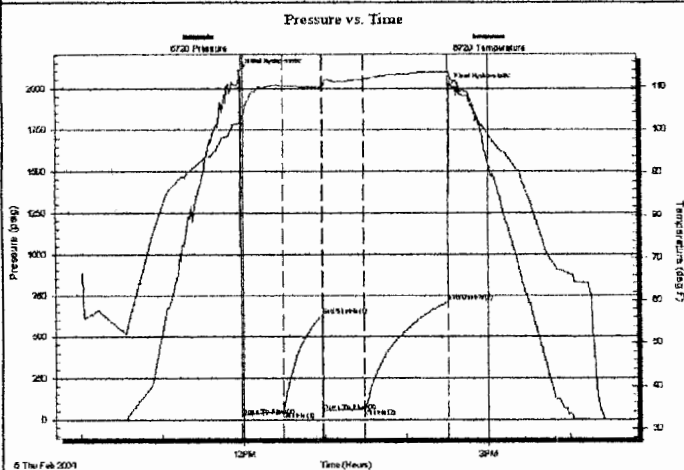
Time Off Btm: 2004.02.05 @ 14:31:29

TEST COMMENT: 1/2" in. @ open built to 1 1/4" in

No return

1/2" in. blow

No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2102.80	101.98	Initial Hydro-static
1	19.92	102.15	Open To Flow (1)
32	47.62	110.25	Shut-In (1)
61	629.58	110.10	End Shut-In (1)
61	50.56	110.05	Open To Flow (2)
92	62.50	111.78	Shut-In (2)
154	712.30	113.44	End Shut-In (2)
154	2009.64	113.64	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
50.00	m c w w/oil spots 30% m 70% w	0.25
20.00	s w c m w/oil spots 15% w 85% m	0.10

Gas Rates

	Choke (Inches)	Pressure (psig)	Gas Rate (Mcf/d)
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Moore-Teeter #1-10

202 West Main ST
Salem IL 62881

10-13-32 Logan, Ks

ATTN: Shakespeare Oil Co. lem IL 62881

Job Ticket: 18083

DST#: 6

Test Start: 2004.02.06 @ 10:09:36

GENERAL INFORMATION:

Formation: **marmaton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:13:35

Time Test Ended: 16:37:05

Interval: 4446.00 ft (KB) To 4474.00 ft (KB) (TVD)

Total Depth: 4474.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole

Tester: Shane McBride

Unit No: 25

Reference Elevations: 3036.00 ft (KB)

3025.00 ft (CF)

KB to GR/CF: 11.00 ft

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Serial #: 6720

Inside

Press@RunDepth: 52.63 psig @ 4447.00 ft (KB)

Start Date: 2004.02.06

End Date:

2004.02.06

Start Time: 10:09:36

End Time:

16:37:05

Capacity: 7000.00 psig

Last Calib.: 1899.12.30

Time On Btm: 2004.02.06 @ 12:12:05

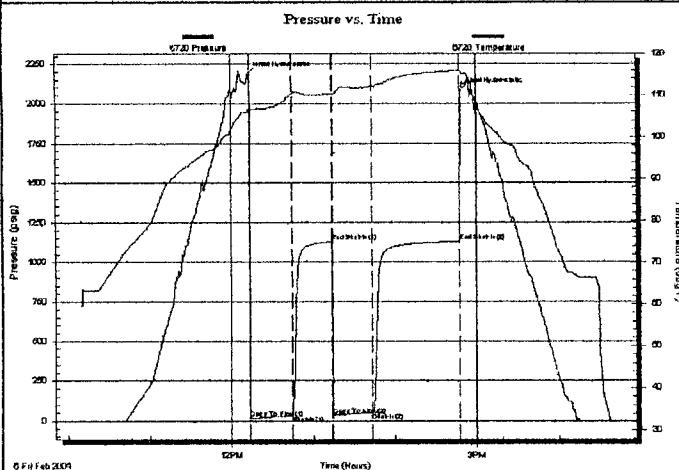
Time Off Btm: 2004.02.06 @ 14:48:05

TEST COMMENT: 1/2" in. @ open, built to 2" in.

No return

1/2" in. blow

No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2180.78	106.16	Initial Hydro-static
2	14.92	106.43	Open To Flow (1)
32	33.43	110.10	Shut-In(1)
62	1129.56	110.24	End Shut-In(1)
62	36.68	109.96	Open To Flow (2)
91	52.63	112.14	Shut-In(2)
155	1130.28	115.88	End Shut-In(2)
156	2080.25	115.82	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	s w c m w/oil spots 10%w 90%m	0.10
60.00	w c m w/oil spots 40%w 60%m	0.30

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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Shakespeare Oil Co. Inc.

Moore-Teeter #1-10202 West Main ST
Salem IL 62881**10-13-32 Logan, Ks**

Job Ticket: 18084

DST#: 7

ATTN: Shakespeare Oil Co. Lem IL 62881

Test Start: 2004.02.07 @ 08:50:01

GENERAL INFORMATION:Formation: **Johnson**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:56:30

Time Test Ended: 15:43:30

Interval: **4562.00 ft (KB) To 4603.00 ft (KB) (TVD)**Total Depth: **4603.00 ft (KB) (TVD)**Hole Diameter: **7.88 inches** Hole Condition: Fair**RECEIVED****FEB 25 2004****KCC WICHITA**

Test Type: Conventional Bottom Hole

Tester: **Shane McBride**Unit No: **25**Reference Elevations: **3036.00 ft (KB)****3025.00 ft (CF)**KB to GR/CF: **11.00 ft****Serial #: 6720**

Inside

Press@RunDepth: **126.29 psig @ 4563.00 ft (KB)**Start Date: **2004.02.07**

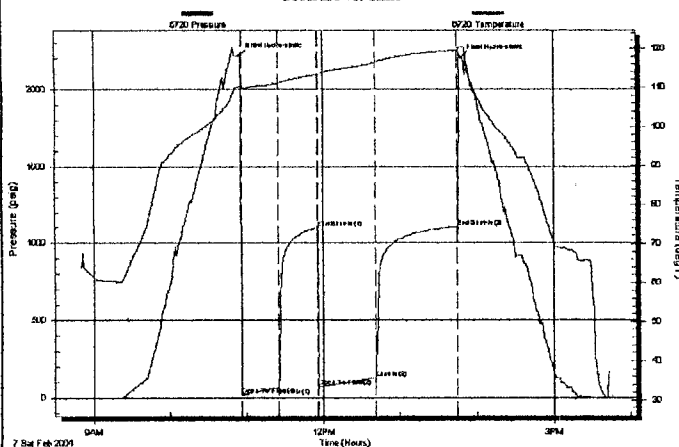
End Date:

2004.02.07Start Time: **08:50:01**

End Time:

15:43:30Capacity: **7000.00 psig**Last Calib.: **1899.12.30**Time On Btm: **2004.02.07 @ 10:54:30**Time Off Btm: **2004.02.07 @ 13:48:00**

TEST COMMENT: 1/2" in. @ open built to 2 1/2" in.
No return
Surface blow in 2 1/2 min. built to 2 1/2" in.
No return

Pressure vs. Time**PRESSURE SUMMARY**

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2216.07	110.13	Initial Hydro-static
2	15.32	109.86	Open To Flow (1)
30	64.05	111.03	Shut-In(1)
61	1098.56	113.36	End Shut-In(1)
62	68.81	113.01	Open To Flow (2)
106	126.29	116.35	Shut-In(2)
171	1105.54	119.55	End Shut-In(2)
174	2205.53	120.21	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
65.00	s w c m w/oil specs 10%w 90%m	0.32
120.00	m c w 50%w 50%mw/oil specs	0.59

Gas Rates

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