

# Superior Testers Enterprises L.L.C.

P.O. Box 138, Great Bend, Kansas 67530

(800) 792-6902

Company Hartman oil co LLC  
 Address 12950 13<sup>th</sup> st N, Wichita KS 67203  
 Lease & # ESP 1-C Sec. 6 Twp 22 Rng 12  
 Date 11-8-2007 County Stafford Elevation 1880 G.L. 1872 K.B.

Drilling Contractor \_\_\_\_\_  
 Drill Pipe Length 3942 I.D. of Drill Pipe 3.86 Tool Joint Size 4 1/2 X H  
 Drill Collar Length 120 I.D. of Drill Collars 2.25 Tool Joint Size 4 1/2 X H  
 Mud Weight 9.3 Viscosity 57 Filtrate 10.6 Chlorides-Pits 10,500 DST 21,000  
 Top Packer Depth 3575 Bottom Packer Depth 3380 Number of Packers 2

Tested From 3580 to 3655 Total Depth 3655 Anchor Length 75  
 Test # 2 Formation Tested ARBuckle Hole Size 7 7/8

Initial Blow good Blow Bottom Bucket in 12 min  
 Blow back on the 1st Shut-in YES

Final Blow good Blow Bottom Bucket in 7 min  
 Blow back on the 2nd Shut-in YES

Initial Hydrostatic 1828 P.S.I. Final Hydrostatic 1737 P.S.I. Maximum Temp. 118 F

Initial Opening <u>179</u> P.S.I. to <u>232</u> P.S.I.	from <u>10:20</u> m to <u>10:50</u> m	<u>30</u> minutes
Initial Shut-in <u>1742</u> P.S.I.	from <u>10:50</u> m to <u>11:20</u> m	<u>30</u> minutes
Final Opening <u>286</u> P.S.I. to <u>436</u> P.S.I.	from <u>11:20</u> m to <u>12:05</u> m	<u>45</u> minutes
Final Shut-in <u>1205</u> P.S.I.	from <u>12:05</u> m to <u>1:05</u> Am	<u>60</u> minutes

Feet	Recovery Description	% Gas	% Oil	% Mud	% Water
<u>120</u>	<u>Mud slight show of oil</u>		<u>2</u>	<u>99</u>	
<u>60</u>	<u>gases oil cut Mud</u>	<u>45</u>	<u>10</u>	<u>95</u>	
<u>240</u>	<u>Mud cut gassy oil</u>	<u>40</u>	<u>30</u>	<u>25</u>	
<u>180</u>	<u>water cut gassy oil</u>	<u>45</u>	<u>40</u>		<u>15</u>
<u>170</u>	<u>water <del>cut</del> and oil cut gas</u>	<u>75</u>	<u>15</u>		<u>10</u>
<u>180</u>	<u>water cut gassy oil</u>	<u>40</u>	<u>25</u>		<u>35</u>

Total Feet Recovered 900 Recovery Chlorides 21,000 Rw. \_\_\_\_\_ ohms @ \_\_\_\_\_ Degrees

Gravity of oil \_\_\_\_\_ Corrected Gas to Surface in \_\_\_\_\_ minutes into the \_\_\_\_\_  
 Max. Gas Gauged \_\_\_\_\_ MCF/day See Gas Flow Report Was a gas sample taken \_\_\_\_\_

Comments \_\_\_\_\_

Extra Equipment-Jars \_\_\_\_\_ Safety Joint \_\_\_\_\_ Circulating Sub \_\_\_\_\_ Straddle \_\_\_\_\_  
 Electronic Recorder No. 91944 Depth 3651 Extra Packer (3rd) \_\_\_\_\_ Hook Wall \_\_\_\_\_  
 Bottom Recorder No. 4337 Depth 3652 Extra Packer (4th) \_\_\_\_\_ Sampler \_\_\_\_\_  
 Tool Operator \_\_\_\_\_ Approved By \_\_\_\_\_

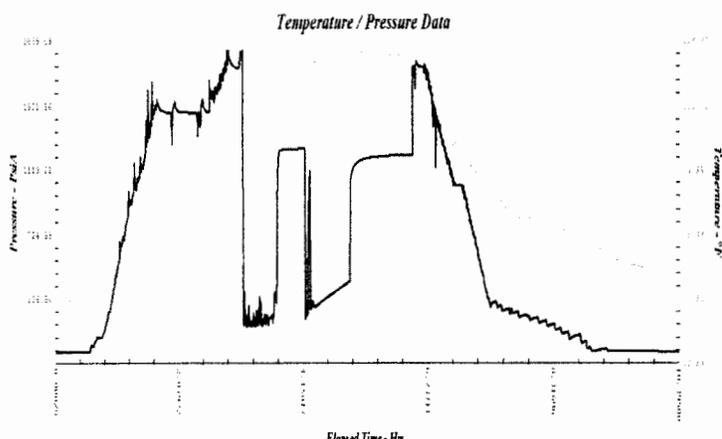
Ticket No. **15376**

# SUPERIOR TESTERS ENTERPRISES L.L.C.

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## DRILL STEM TEST REPORT

GREAT BEND, KANSAS 67530



Tool Interval Number: 0175  
 Date: 11/29/07 09:58:00

<b>1</b>	Initial Hydrostatic Pressure	1828
<b>2</b>	Initial Flow Pressure	179
<b>3</b>	Final Initial Flow Pressure	232
<b>4</b>	Initial Shut-In Pressure	1242
<b>5</b>	Initial Final Flow Pressure	286
<b>6</b>	Final Flow Pressure	436
<b>7</b>	Final Shut-In Pressure	1205
<b>8</b>	Final Hydrostatic Pressure	1737

Maximum Temperature      118

### GENERAL INFORMATION

COMPANY NAME ..... HARTMAN OIL CO INC.

TEST DATE ..... 11/8/07

SECTION-TOWN-RANGE ..... 41082

STATE ..... KANSAS

COUNTY ..... STAFFORD

ELEVATION GROUND LEVEL ..... 1860

COMPANY REPRESENTATIVE ..... JIM

LEASE AND WELL NUMBER ..... ESP 1-6

FORMATION TESTED ..... ARBUCKLE

DRILL STEM TEST NUMBER ..... 2

REPORT NUMBER ..... 15376

ELEVATION KELLY BUSHINGS ..... 1860

TESTING ENGINEER ..... DAVID NICHOLS

### TOOL SETTING INFORMATION

TEST INTERVAL (From) ..... 3580

TEST INTERVAL (to) ..... 3655

ANCHOR LENGTH ..... 75

TOTAL DEPTH (ft) ..... 3655

TOP PACKER DEPTH ..... 3575

BOTTOM PACKER DEPTH ..... 3580

NUMBER OF PACKERS ..... 2

PACKER SIZE ..... 6 3/4

HOLE SIZE ..... 7 7/8

### FLOW TIMES

*INITIAL OPEN*

TOOL OPEN (from) ..... 10:20

TOOL OPEN (to) ..... 10:50

DURATION (min.) ..... 30

*INITIAL SHUT-IN*

TOOL CLOSED (from) ..... 10:50

TOOL CLOSED (to) ..... 11:20

DURATION (min.) ..... 30

*FINAL OPEN*

TOOL OPEN (from) ..... 11:20

TOOL OPEN (to) ..... 12:05

DURATION (min.) ..... 45

*FINAL SHUT-IN*

TOOL CLOSED (from) ..... 12:05

TOOL CLOSED (to) ..... 1:05

DURATION (min.) ..... 60

**INITIAL FLOW      GOOD BLOW BOTTOM BCKET IN 12 MIN**

**FINAL FLOW      GOOD BLOW BOTTOM OF BUCKET IN 7 MIN**

Company: HARTMAN OIL CO INC

Lease & Well No. ESP1-6 Test #: 2 Date: 11-8-07 SEC. 6 TWP. 22 RGE. 12

**SUPERIOR TESTERS ENTERPRISES L.L.C.**

**DRILL STEM TEST REPORT**

**GREAT BEND ,KANSAS 67530 (800)792-6902**

**GENERAL INFORMATION**

COMPANY NAME .....	HARTMAN OIL CO INC.	LEASE AND WELL NUMBER .....	ESP1-6
TEST DATE .....	11/8/07	FORMATION TESTED .....	ARBUCKLE
SECTION-TOWN-RANGE .....	6/22/2012	DRILL STEM TEST NUMBER .....	2
STATE .....	KANSAS	REPORT NUMBER .....	15376
COUNTY .....	STAFFORD	ELEVATION KELLY BUSHINGS .....	1872
ELEVATION GROUND LEVEL .....	1860	TESTING ENGINEER .....	DAVID NICHOLS
COMPANY REPRESENTATIVE .....	JIM		

**EXTRA EQUIPMENT**

JARS .....	NO	EXTRA PACKER (3RD) .....	NO
SAFETY JOINT .....	NO	EXTRA PACKER (4TH) .....	NO
ELECTRONIC RECORDER .....	NO	STRADDLE .....	NO
CIRCULATING SUB .....	NO	HOOK WALL .....	NO
		SAMPLER .....	NO
	<b>36 MILES ROUND TRIP FROM</b>	<b>GREAT BEND</b>	
TOP RECORDER DEPTH .....	3651	BOTTOM RECORDER DEPTH .....	3652
RECORDER NUMBER .....	4023	RECORDER NUMBER .....	3088

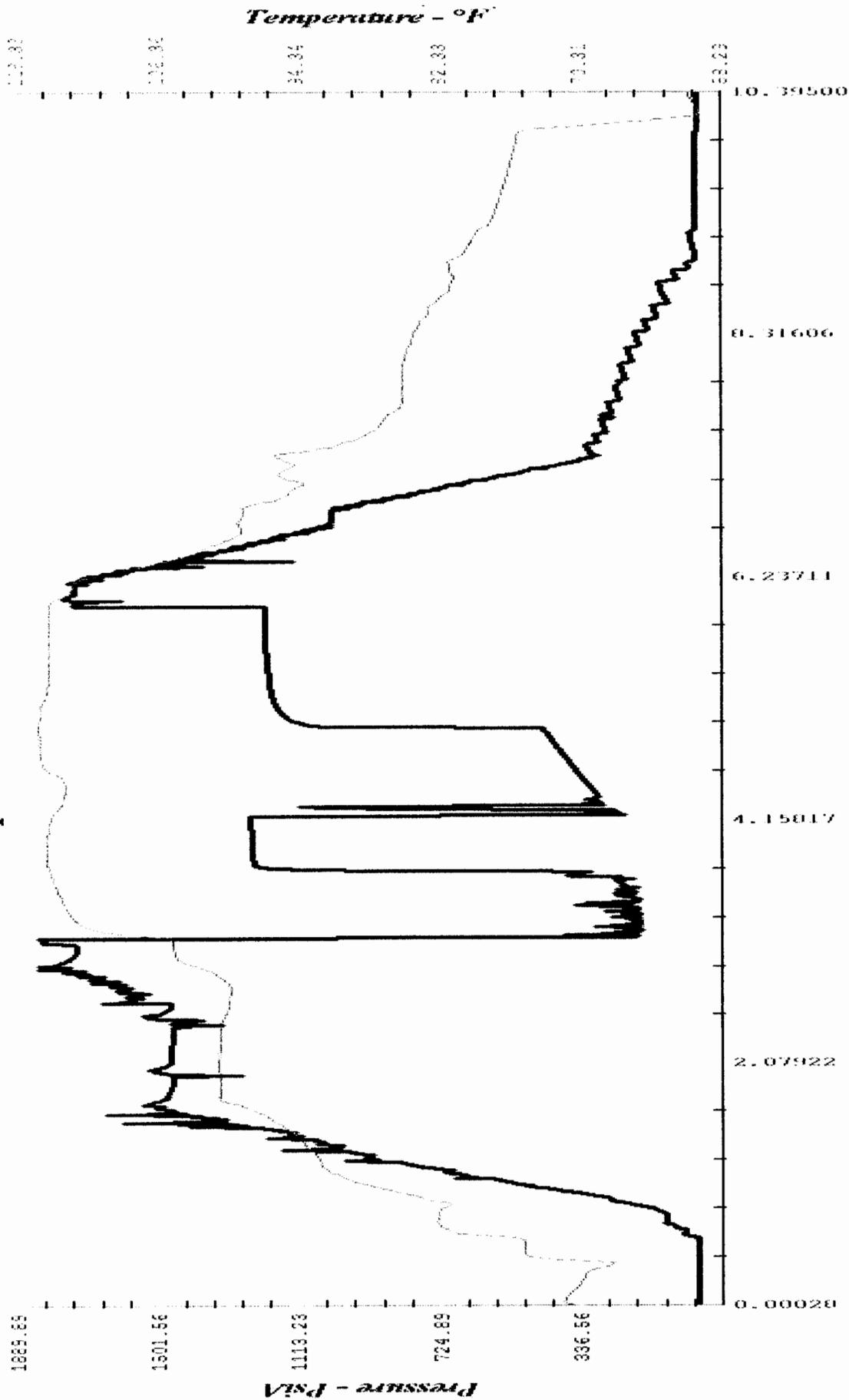
**WELL INFORMATION**

DRILLING CONTRACTOR .....	H2 RIG#2	DRILL COLLAR LENGTH .....	120
DRILL PIPE LENGTH .....	3442	DRILL COLLAR I.D. ....	2.25
DRILL PIPE I.D. ....	3.8	TOOL JOINT SIZE .....	4 1/2 X.H.
TOOL JOINT SIZE .....	4 1/2 X.H.		
CHLORIDES-PITS .....	10,500	MUD WEIGHT #GAL .....	9.3
CHLORIDES-DST .....	21,000	VISCOSITY .....	57
		WATER LOSS .....	10.6

**COMMENTS**



*Temperature / Pressure Data*



Tool serial number: 91716

Test start: 11/09/2007 08:38:03