

Hess Petroleum Co.  
Ellis 1

# Superior Testers Enterprises L.L.C.

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

(800) 792-6902

20-24s-9w

15-155-21533

Company HESSE PETROLEUM Co. INC.  
 Address 400 N. WOODLAWN SUITE 7 WICHITA KS 67208-4333  
 Lease & # ELLIS #1 Sec. 20 Twp 24S Rng 9W  
 Date 1-8-2008 County RENO Elevation 1680 G.L. 1685 K.B.  
 Drilling Contractor PICKRELL DRIG RIG #10  
 Drill Pipe Length 3472 I.D. of Drill Pipe 3.8 Tool Joint Size 4 1/2 XH  
 Drill Collar Length 120 I.D. of Drill Collars 2.25 Tool Joint Size 4 1/2 XH  
 Mud Weight 9.3 Viscosity 45 Filtrate 8.8 Chlorides-Pits 6,100 DST \_\_\_\_\_  
 Top Packer Depth 3583 Bottom Packer Depth 3588 Number of Packers 2  
 Tested From 3588 to 3650 Total Depth 3650 Anchor Length 62  
 Test # 1 Formation Tested SLOPE/HERTHA Hole Size 7 7/8  
 Initial Blow FAIR SURFACE BLOW

Blow back on the 1st Shut-in NO

Final Blow NO BLOW, FLUSHED TOOL, NO BLOW

Blow back on the 2nd Shut-in NO

Initial Hydrostatic 1843 P.S.I. Final Hydrostatic 1714 P.S.I. Maximum Temp. 112 F

Initial Opening <u>69</u> P.S.I. to <u>76</u> P.S.I. from <u>1:35 AM</u> to <u>2:05 AM</u> <u>30</u> minutes
Initial Shut-in <u>956</u> P.S.I. from <u>2:05 AM</u> to <u>2:50 AM</u> <u>45</u> minutes
Final Opening <u>71</u> P.S.I. to <u>75</u> P.S.I. from <u>2:50 AM</u> to <u>3:35 AM</u> <u>45</u> minutes
Final Shut-in <u>930</u> P.S.I. from <u>3:35 AM</u> to <u>4:35 AM</u> <u>60</u> minutes

Feet	Recovery Description	% Gas	% Oil	% Mud	% Water
<u>60</u>	<u>MUD</u>			<u>100</u>	

CONFIDENTIAL  
APR 28 2008  
KCC

Total Feet Recovered 60 Recovery Chlorides \_\_\_\_\_ 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 YES Safety Joint YES Circulating Sub ~~NO~~ Straddle NO  
 Electronic Recorder No. 91951 Depth 3646 Extra Packer (3rd) NO Hook Wall NO  
 Bottom Recorder No. 10750 Depth 3647 Extra Packer (4th) NO Sampler NO  
 Tool Operator Frank G... .. Approved By \_\_\_\_\_

Ticket No. 15603

RECEIVED  
KANSAS CORPORATION COMMISSION

APR 29 2008

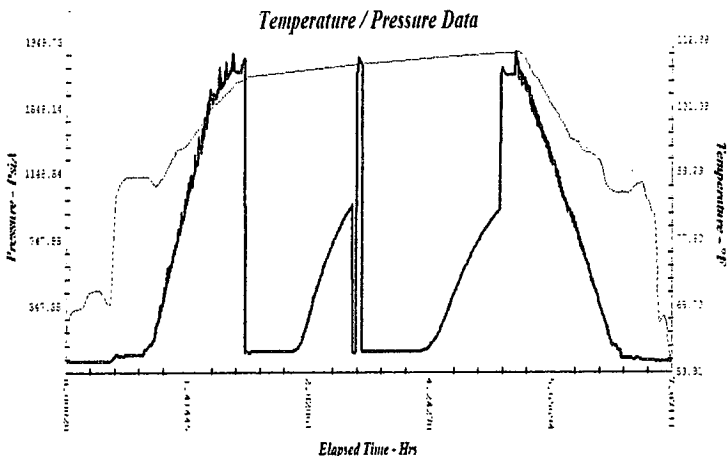
CONSERVATION DIVISION  
WICHITA, KS

# SUPERIOR TESTERS ENTERPRISES L.L.C.

## DRILL STEM TEST REPORT

1(800)792-6902

GREAT BEND, KANSAS 67530



Tool serial number: 91321  
Date saved: 01/02/2008 06:40:26

1	Initial Hydrostatic Pressure	1843
2	Initial Flow Pressure	69
3	Final Initial Flow Pressure	78
4	Initial Shut-In Pressure	956
5	Initial Final Flow Pressure	71
6	Final Flow Pressure	75
7	Final Shut-In Pressure	930
8	Final Hydrostatic Pressure	1716
Maximum Temperature		112

### GENERAL INFORMATION

COMPANY NAME ..... HESSE PETROLEUM CO. INC

TEST DATE ..... 1/8/08

SECTION-TOWN-RANGE ..... 20-24S-9W

STATE ..... KANSAS

COUNTY ..... RENO

ELEVATION GROUND LEVEL ..... 1680

COMPANY REPRESENTATIVE ..... ROBERT PETERSON

LEASE AND WELL NUMBER ..... ELLIS #1

FORMATION TESTED ..... SWOPE/ HERTI

DRILL STEM TEST NUMBER ..... 1

REPORT NUMBER ..... 15603

ELEVATION KELLY BUSHINGS ..... 1685

TESTING ENGINEER ..... FRANK ZAMARRIPA

### TOOL SETTING INFORMATION

TEST INTERVAL (From) ..... 3588

TEST INTERVAL (to) ..... 3650

ANCHOR LENGTH ..... 62

TOTAL DEPTH (ft) ..... 3650

TOP PACKER DEPTH ..... 3583

BOTTOM PACKER DEPTH ..... 3588

NUMBER OF PACKERS ..... 2

PACKER SIZE ..... 6 3/4

HOLE SIZE ..... 7 7/8

CONFIDENTIAL  
APR 28 2008  
KCC

### FLOW TIMES

INITIAL OPEN

TOOL OPEN (from) ..... 1:35A

TOOL OPEN (to) ..... 2:05

DURATION (min.) ..... 30

INITIAL SHUT-IN

TOOL CLOSED (from) ..... 2:05

TOOL CLOSED (to) ..... 2:50

DURATION (min.) ..... 45

FINAL OPEN

TOOL OPEN (from) ..... 2:50

TOOL OPEN (to) ..... 3:35

DURATION (min.) ..... 45

FINAL SHUT-IN

TOOL CLOSED (from) ..... 3:35

TOOL CLOSED (to) ..... 4:35

DURATION (min.) ..... 60

INITIAL FLOW

FAIR SURFACE BLOW  
NO BLOW BACK

FINAL FLOW

NO BLOW, FLUSHED TOOL, NO BLOW  
NO BLOW BACK

RECEIVED  
KANSAS CORPORATION COMMISSION

APR 29 2008

CONSERVATION DIVISION  
WICHITA, KS

Company: HESSE PETROLEUM CO. INC  
TWP. 24S RGE. 9W

Lease & Well No. ELLIS # 1

Test #: 1

Date: 1-8-08

SEC. 20

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

**DRILL STEM TEST REPORT**

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

**GENERAL INFORMATION**

COMPANY NAME ..... HESSE PETROLEUM CO. INC  
TEST DATE ..... 1/8/08  
SECTION-TOWN-RANGE ..... 20-24S-9W  
STATE ..... KANSAS  
COUNTY ..... RENO  
ELEVATION GROUND LEVEL ..... 1680  
COMPANY REPRESENTATIVE ..... ROBERT PETERSON  
LEASE AND WELL NUMBER ..... ELLIS #1  
FORMATION TESTED ..... SWOPE/ HERTHA  
DRILL STEM TEST NUMBER ..... 1  
REPORT NUMBER ..... 15603  
ELEVATION KELLY BUSHINGS ..... 1685  
TESTING ENGINEER ..... FRANK ZAMARRIPA

**EXTRA EQUIPMENT**

JARS ..... YES  
SAFETY JOINT ..... YES  
ELECTRONIC RECORDER ..... YES  
CIRCULATING SUB ..... NO  
90 MILES ROUND TRIP FROM GREAT BEND  
TOP RECORDER DEPTH ..... 3646  
RECORDER NUMBER ..... 91951  
EXTRA PACKER (3RD) ..... NO  
EXTRA PACKER (4TH) ..... NO  
STRADDLE ..... NO  
HOOK WALL ..... NO  
SAMPLER ..... NO  
BOTTOM RECORDER DEPTH ..... 3647  
RECORDER NUMBER ..... 10250

**WELL INFORMATION**

DRILLING CONTRACTOR ..... PICKRELL DRLG RIG #1  
DRILL PIPE LENGTH ..... 3472  
DRILL PIPE I.D. .... 3.8  
TOOL JOINT SIZE ..... 4 1/2 X.H.  
DRILL COLLAR LENGTH ..... 120  
DRILL COLLAR I.D. .... 2.25  
TOOL JOINT SIZE ..... 4 1/2 X.H.

CONFIDENTIAL

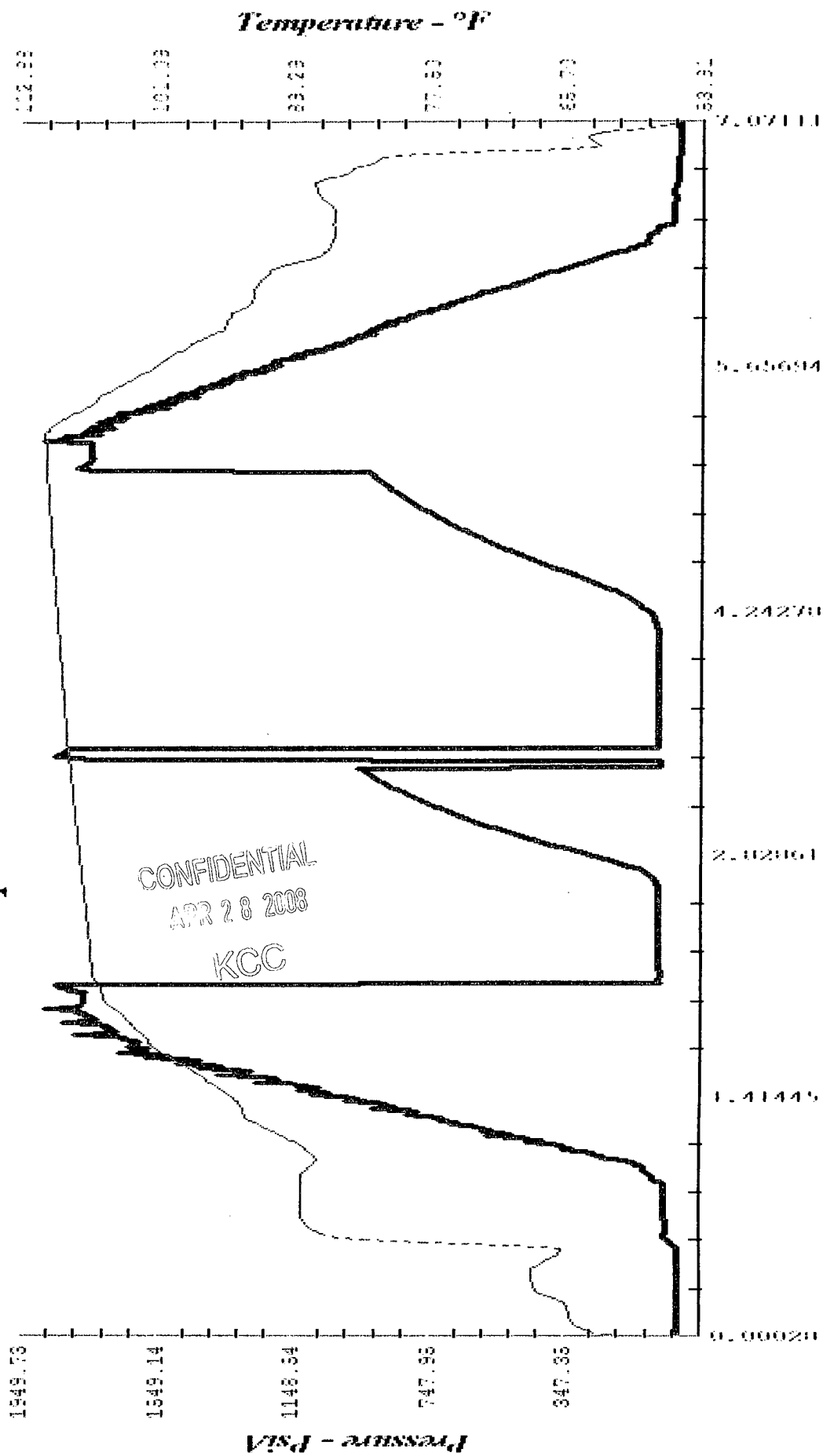
APR 28 2008

KCC

**COMMENTS**



# Temperature / Pressure Data



CONFIDENTIAL  
APR 28 2008  
KCC

Tool serial number: 31381  
Test start: 01/08/2008 06:40:26

IND

RECEIVED  
KANSAS CORPORATION COMMISSION

APR 29 2008

CONSERVATION DIVISION  
WICHITA, KS

# Superior Testers Enterprises L.L.C.

P.O. Box 138, Great Bend, Kansas 67530  
(800) 792-6902

Company HESSE PETROLEUM Co. INC.  
 Address 400 N. WOODLAWN Suite 7 Wichita Ks 67208-4383  
 Lease & # ELLIS #1 Sec. 20 Twp 24S Rng 9W  
 Date 1-9-2008 County RENO Elevation 1080 G.L. 1685 K.B.  
 Drilling Contractor PICKRELL DRLG RIG #10  
 Drill Pipe Length 3619 I.D. of Drill Pipe 3.8 Tool Joint Size 4 1/2 XH  
 Drill Collar Length 120 I.D. of Drill Collars 2.25 Tool Joint Size 4 1/2 XH  
 Mud Weight 9.3 Viscosity 50 Filtrate 8.8 Chlorides-Pits 5,100 DST \_\_\_\_\_  
 Top Packer Depth 3761 Bottom Packer Depth 3766 Number of Packers 2  
 Tested From 3766 to 3810 Total Depth 3810 Anchor Length 44  
 Test # 2 Formation Tested MISSISSIPPI Hole Size 7 7/8  
 Initial Blow STRONG BLOW TO BOTTOM OF 5 GALLON BUCKET IN LESS THAN 1 MINUTE  
 Blow back on the 1st Shut-in STRONG  
 Final Blow STRONG BLOW TO BOTTOM OF 5 GALLON BUCKET RIGHT AWAY  
 Blow back on the 2nd Shut-in WEAK  
 Initial Hydrostatic 1920 P.S.I. Final Hydrostatic 1922 P.S.I. Maximum Temp. 118 F

Initial Opening	<u>182</u> P.S.I. to <u>296</u> P.S.I.	from <u>12:45 A m</u> to <u>1:15 A m</u>	<u>30</u> minutes
Initial Shut-in	<u>1156</u> P.S.I.	from <u>1:15 A m</u> to <u>2:15 A m</u>	<u>60</u> minutes
Final Opening	<u>80</u> P.S.I. to <u>90</u> P.S.I.	from <u>2:15 A m</u> to <u>3:45 A m</u>	<u>90</u> minutes
Final Shut-in	<u>1053</u> P.S.I.	from <u>3:45 A m</u> to <u>6:45 A m</u>	<u>180</u> minutes

Feet	Recovery Description	% Gas	% Oil	% Mud	% Water
<u>35</u>	<u>MUD</u>			<u>100</u>	
<u>60</u>	<u>SLIGHT OIL CUT MUD</u>		<u>5</u>	<u>95</u>	
<u>60</u>	<u>HEAVY OIL CUT MUD</u>		<u>70</u>	<u>30</u>	
	<b>CONFIDENTIAL</b>				
	<b>APR 28 2008</b>				
	<b>KCC</b>				

Total Feet Recovered 135 Recovery Chlorides \_\_\_\_\_ Rw. \_\_\_\_\_ ohms @ \_\_\_\_\_ Degrees  
 Gravity of oil \_\_\_\_\_ Corrected Gas to Surface in 0 minutes into the 2ND OPENING  
 Max. Gas Gauged 270,000 MCF/day See Gas Flow Report Was a gas sample taken YES  
 Comments \_\_\_\_\_

Extra Equipment-Jars YES Safety Joint YES Circulating Sub \_\_\_\_\_ Straddle NO  
 Electronic Recorder No. 91951 Depth 3806 Extra Packer (3rd) NO Hook Wall NO  
 Bottom Recorder No. 10250 Depth 3807 Extra Packer (4th) NO Sampler NO  
 Tool Operator Frank Zamarrigo Approved By \_\_\_\_\_

# SUPERIOR TESTERS ENTERPRISES L.L.C.

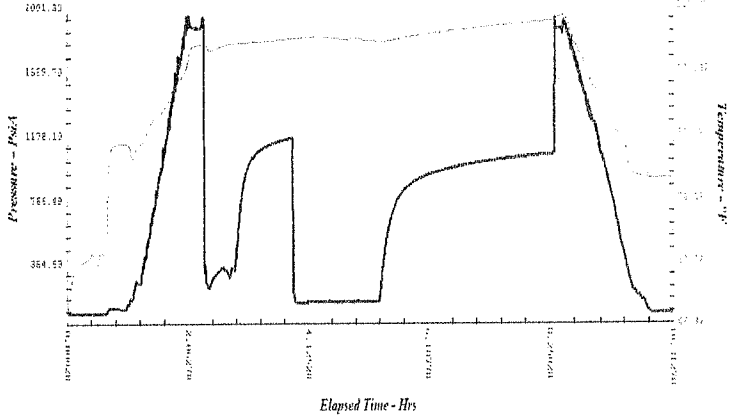
## DRILL STEM TEST REPORT

GREAT BEND, KANSAS 67530

1(800)792-6902

Company: HESSE PETROLEUM CO. INC. Lease & Well No. ELLIS # 1 Test #: 2 Date: 1-9-08  
 TWP. 24S RGE. 9W SEC. 20

*Temperature / Pressure Data*



Tool serial number: 91391  
 Test start: 01/09/2008 09:56:39

1	Initial Hydrostatic Pressure	1926
2	Initial Flow Pressure	182
3	Final Initial Flow Pressure	296
4	Initial Shut-In Pressure	1156
5	Initial Final Flow Pressure	80
6	Final Flow Pressure	90
7	Final Shut-In Pressure	1053
8	Final Hydrostatic Pressure	1922

Maximum Temperature      118

**GENERAL INFORMATION**

COMPANY NAME ..... HESSE PETROLEUM CO. INC

TEST DATE ..... 1/9/08

SECTION-TOWN-RANGE ..... 20-24S-9W

STATE ..... KANSAS

COUNTY ..... RENO

ELEVATION GROUND LEVEL ..... 1680

COMPANY REPRESENTATIVE ..... ROBERT PETERSON

LEASE AND WELL NUMBER ..... ELLIS # 1

FORMATION TESTED ..... MISSISSIPPI

DRILL STEM TEST NUMBER ..... 2

REPORT NUMBER ..... 15604

ELEVATION KELLY BUSHINGS ..... 1685

TESTING ENGINEER ..... FRANK ZAMARRIPA

**TOOL SETTING INFORMATION**

TEST INTERVAL (From) ..... 3766

TEST INTERVAL (to) ..... 3810

ANCHOR LENGTH ..... 44

TOTAL DEPTH (ft) ..... 3810

TOP PACKER DEPTH ..... 3761

BOTTOM PACKER DEPTH ..... 3766

NUMBER OF PACKERS ..... 2

PACKER SIZE ..... 6 3/4

HOLE SIZE ..... 7 7/8

CONFIDENTIAL  
 APR 28 2008  
 KCC

**FLOW TIMES**

*INITIAL OPEN*

TOOL OPEN (from) ..... 12:45A

TOOL OPEN (to) ..... 1:15

DURATION (min.) ..... 30

*FINAL OPEN*

TOOL OPEN (from) ..... 2:15

TOOL OPEN (to) ..... 3:45

DURATION (min.) ..... 90

*INITIAL SHUT-IN*

TOOL CLOSED (from) ..... 1:15

TOOL CLOSED (to) ..... 2:15

DURATION (min.) ..... 60

*FINAL SHUT-IN*

TOOL CLOSED (from) ..... 3:45

TOOL CLOSED (to) ..... 6:45

DURATION (min.) ..... 180

**INITIAL FLOW**

STRONG BLOW TO BOTTOM OF 5 GALLON BUCKET IN LESS THAN 1 MINUTE  
 STRONG BLOW BACK

**FINAL FLOW**

STRONG BLOW TO BOTTOM OF 5 GALLON BUCKET RIGHT AWAY  
 WEAK BLOW BACK

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

**DRILL STEM TEST REPORT**

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

**GENERAL INFORMATION**

COMPANY NAME .....	HESSE PETROLEUM CO. INC	LEASE AND WELL NUMBER .....	ELLIS # 1
TEST DATE .....	1/9/08	FORMATION TESTED .....	MISSISSIPPI
SECTION-TOWN-RANGE .....	20-24S-9W	DRILL STEM TEST NUMBER .....	2
STATE .....	KANSAS	REPORT NUMBER .....	15604
COUNTY .....	RENO	ELEVATION KELLY BUSHINGS .....	1685
ELEVATION GROUND LEVEL .....	1680	TESTING ENGINEER .....	FRANK ZAMARRIPA
COMPANY REPRESENTATIVE .....	ROBERT PETERSON		

**EXTRA EQUIPMENT**

JARS .....	YES	EXTRA PACKER (3RD) .....	NO
SAFETY JOINT .....	YES	EXTRA PACKER (4TH) .....	NO
ELECTRONIC RECORDER .....	YES	STRADDLE .....	NO
CIRCULATING SUB .....	NO	HOOK WALL .....	NO
		SAMPLER .....	NO
	<b>90 MILES ROUND TRIP FROM</b>	<b>GREAT BEND</b>	
TOP RECORDER DEPTH .....	3806	BOTTOM RECORDER DEPTH .....	3807
RECORDER NUMBER .....	91951	RECORDER NUMBER .....	10250

**WELL INFORMATION**

DRILLING CONTRACTOR .....	PICKRELL DRLG RIG # 10	DRILL COLLAR LENGTH .....	120
DRILL PIPE LENGTH .....	3619	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.		

**CONFIDENTIAL**  
**APR 28 2008**  
**KCC**

**COMMENTS**



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

GREAT BEND, KANSAS

**GAS FLOW RATE**

(800) 792-6902

#

<b>STATE</b> ..... KANSAS	<b>Test Date</b> ..... 1/9/08
<b>COUNTY</b> ..... RENO	<b>Sec Town Range</b> ..... 20-24S-9W
<b>FIELD</b> .....	<b>Report Number</b> ..... 15604

**Initial Flow**

Comments	Time (hh:mm:ss)	Period dt (min)	Inches H2O Orifice Tester	PSI on Orifice Tester	PSI on Pitot Tube	Choke Size (In)	Gas Rate (MCF/Day)
TOOL OPEN 12:45 AM NO GAS TO SURFACE							

CONFIDENTIAL  
APR 28 2008

KCC

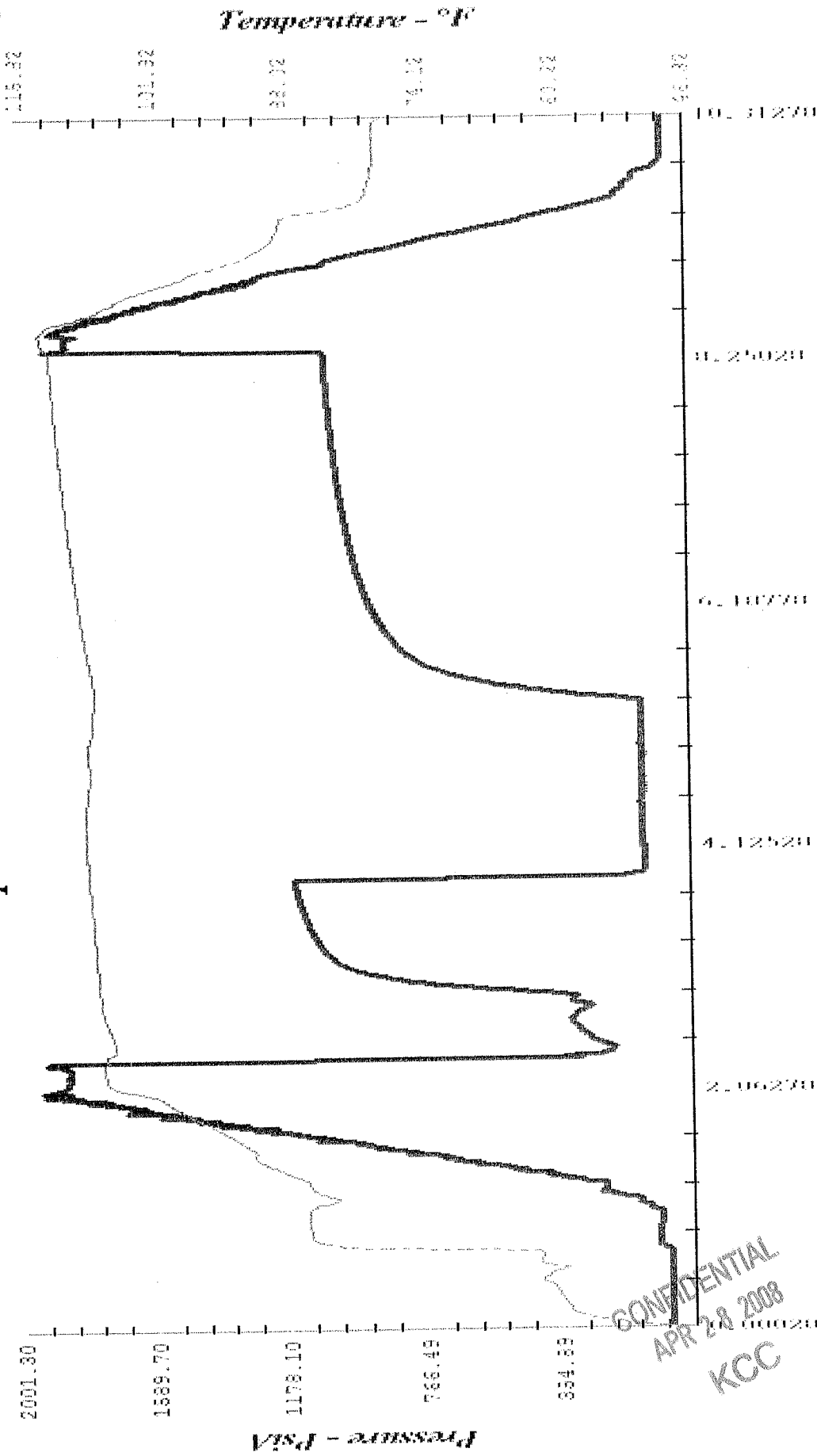
**Final Flow**

Comments	Time (hh:mm:ss)	Period dt (min)	Inches H2O Orifice Tester	PSI on Orifice Tester	PSI on Pitot Tube	Choke Size (In)	Gas Rate (MCF/Day)
TOOL OPEN AT	2:20	5	2	15		1 1/2	270.000
2:15 AM	2:25	5	2	9		1 1/2	209.000
GAS TO SURFACE	2:30	5	2	9		1 1/2	209.000
	2:35	5	2	9		1 1/2	209.000
	2:40	5	2	9		1 1/2	209.000
	2:45	5	2	9		1 1/2	209.000
	2:50	5	2	9		1 1/2	209.000
	2:55	5	2	9		1 1/2	209.000
	3:00	5	2	9		1 1/2	209.000
	3:05	5	2	7		1 1/2	184.000
	3:10	5	2	7		1 1/2	184.000
	3:15	5	2	7		1 1/2	184.000
	3:20	5	2	7		1 1/2	184.000
	3:35	10	2	7		1 1/2	184.000
	3:45	10	2	7		1 1/2	184.000

**Was there a gas sample taken**

**YES**

# Temperature / Pressure Data



CONFIDENTIAL  
 APR 28 2008  
 KCC

Tool serial number: 31981  
 Test start: 01/09/2008 08:56:58

HESSE PETROLEUM CO. INC. 20-24S-9W ELLIS #1 1-9-08 DST #2 MISSISSIPPI