

# Superior Testers Enterprises L.L.C.

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

(800) 792-6902

Company Ritche Exploration Inc  
 Address Po. 783188 Wichita KS 67276 + 3188  
 Lease & # Torline 174 #1 Sec. 17 Twp 27 Rng 23  
 Date 3-14-2008 County Ford Elevation 2412 G.L. 2424 K.B.  
 Drilling Contractor Duke Drilling Rig #1  
 Drill Pipe Length 4884 I.D. of Drill Pipe 3.8 Tool Joint Size 4 1/2 XH  
 Drill Collar Length \_\_\_\_\_ I.D. of Drill Collars 2.25 Tool Joint Size 4 1/2 XH  
 Mud Weight 8.7 Viscosity 41 Filtrate 9.6 Chlorides-Pits 4,000 DST \_\_\_\_\_  
 Top Packer Depth 4898 Bottom Packer Depth 4903 Number of Packers 2  
 Tested From 4903 to 4943 Total Depth 4943 Anchor Length 40  
 Test # 1 Formation Tested Mor Hole Size 7 7/8  
 Initial Blow Fair Blow Buit Bottom of Bucket in 12 min

Blow back on the 1st Shut-in NO Blow Back

Final Blow Strong Blow Buit Bottom of Bucket in 1 min

Blow back on the 2nd Shut-in NO Blow Back

Initial Hydrostatic 2433 P.S.I. Final Hydrostatic 2358 P.S.I. Maximum Temp. 122 F

Initial Opening	<u>52</u> P.S.I. to <u>87</u> P.S.I.	from	<u>6:30</u> Am to <u>7:00</u> Am	<u>30</u> minutes
Initial Shut-in	<u>1283</u> P.S.I.	from	<u>7:00</u> Am to <u>7:45</u> Am	<u>45</u> minutes
Final Opening	<u>109</u> P.S.I. to <u>140</u> P.S.I.	from	<u>7:45</u> Am to <u>8:45</u> m	<u>60</u> minutes
Final Shut-in	<u>1398</u> P.S.I.	from	<u>8:45</u> m to <u>10:30</u> m	<u>90</u> minutes

Feet	Recovery Description	% Gas	% Oil	% Mud	% Water
<u>1020</u>	<u>Gas on top of fluid</u>	<u>100</u>			
<u>60</u>	<u>mud cut oil</u>		<u>35</u>	<u>65</u>	
<u>60</u>	<u>mud cut oil</u>		<u>35</u>	<u>65</u>	
<u>60</u>	<u>slightly Gassey oil cut mud</u>	<u>20</u>	<u>60</u>	<u>20</u>	
<u>60</u>	<u>slightly Gassey oil cut mud</u>	<u>40</u>	<u>40</u>	<u>20</u>	
<u>60</u>	<u>oil cut mud</u>		<u>80</u>	<u>20</u>	

Total Feet Recovered 1350 Recovery Chlorides \_\_\_\_\_ Rw. \_\_\_\_\_ ohms @ \_\_\_\_\_ Degrees  
 Gravity of oil 49 Corrected Gas to Surface in \_\_\_\_\_ minutes into the \_\_\_\_\_  
 Max. Gas Gauged \_\_\_\_\_ MCF/day See Gas Flow Report Was a gas sample taken NO  
 Comments \_\_\_\_\_

Extra Equipment-Jars \_\_\_\_\_ Safety Joint \_\_\_\_\_ Circulating Sub \_\_\_\_\_ Straddle \_\_\_\_\_  
 Electronic Recorder No. 47441 Depth 4939 Extra Packer (3rd) \_\_\_\_\_ Hook Wall \_\_\_\_\_  
 Bottom Recorder No. 13214 Depth 4940 Extra Packer (4th) \_\_\_\_\_ Sampler \_\_\_\_\_  
 Tool Operator [Signature] Approved By \_\_\_\_\_

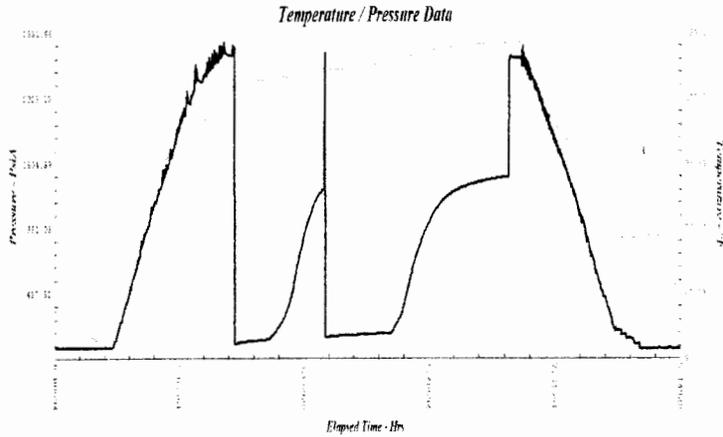
Ticket No. 15477

# SUPERIOR TESTERS ENTERPRISES L.L.C.

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## DRILL STEM TEST REPORT

GREAT BEND, KANSAS 67530



1	Initial Hydrostatic Pressure	2433
2	Initial Flow Pressure	52
3	Final Initial Flow Pressure	87
4	Initial Shut-In Pressure	1283
5	Initial Final Flow Pressure	107
6	Final Flow Pressure	140
7	Final Shut-In Pressure	1398
8	Final Hydrostatic Pressure	2358

Maximum Temperature      122

### GENERAL INFORMATION

COMPANY NAME ..... <b>RITCHE EXPLORATION INC</b>	
TEST DATE ..... <b>3/14/08</b>	LEASE AND WELL NUMBER ..... <b>TORLINE 17 A #1</b>
SECTION-TOWN-RANGE ..... <b>17-27-23</b>	FORMATION TESTED ..... <b>MOR</b>
STATE ..... <b>KANSAS</b>	DRILL STEM TEST NUMBER ..... <b>1</b>
COUNTY ..... <b>FORD</b>	REPORT NUMBER ..... <b>15477</b>
ELEVATION GROUND LEVEL ..... <b>2412</b>	ELEVATION KELLY BUSHINGS ..... <b>2424</b>
COMPANY REPRESENTATIVE ..... <b>MIKE ENGLEBRECH TESTING ENGINEER</b> ..... <b>JARED SCHECK</b>	

### TOOL SETTING INFORMATION

TEST INTERVAL (From) ..... <b>4903</b>	TOP PACKER DEPTH ..... <b>4898</b>
TEST INTERVAL (to) ..... <b>4943</b>	BOTTOM PACKER DEPTH ..... <b>4903</b>
ANCHOR LENGTH ..... <b>40</b>	NUMBER OF PACKERS ..... <b>2</b>
TOTAL DEPTH (ft) ..... <b>4943</b>	PACKER SIZE ..... <b>6 3/4</b>
	HOLE SIZE ..... <b>7 7/8</b>

### FLOW TIMES

<i>INITIAL OPEN</i>		<i>FINAL OPEN</i>	
TOOL OPEN (from) ..... <b>6:30A</b>		TOOL OPEN (from) ..... <b>7:45</b>	
TOOL OPEN (to) ..... <b>7:00</b>		TOOL OPEN (to) ..... <b>8:45</b>	
DURATION (min.) ..... <b>30</b>		DURATION (min.) ..... <b>60</b>	
<i>INITIAL SHUT-IN</i>		<i>FINAL SHUT-IN</i>	
TOOL CLOSED (from) ..... <b>7:00</b>		TOOL CLOSED (from) ..... <b>8:45</b>	
TOOL CLOSED (to) ..... <b>7:45</b>		TOOL CLOSED (to) ..... <b>10:30A</b>	
DURATION (min.) ..... <b>45</b>		DURATION (min.) ..... <b>90</b>	

**INITIAL FLOW      FAIR BLOW BUILT BOTTOM OF BUCKET IN 12 MIN  
NO BLOW BACK**

**FINAL FLOW      STRONG BLOW BOTTOM OF BUCKET IN 1 MIN  
NO BLOW BACK**

Company: RITCHE EXPLORATION INC      Lease & Well No. TORLINE 17A #1      Test #: 1      Date: 3-14-08      SEC 17  
 TWP. 27      RGE. 23

# SUPERIOR TESTERS ENTERPRISES L.L.C.

## DRILL STEM TEST REPORT

GREAT BEND ,KANSAS 67530 (800)792-6902

### GENERAL INFORMATION

COMPANY NAME ..... RITCHE EXPLORATION INC  
TEST DATE ..... 3/14/08  
SECTION-TOWN-RANGE ..... 17-27-23  
STATE ..... KANSAS  
COUNTY ..... FORD  
ELEVATION GROUND LEVEL ..... 2412  
COMPANY REPRESENTATIVE ..... MIKE ENGLEBRECHT

LEASE AND WELL NUMBER ..... TORLINE 17 A #1  
FORMATION TESTED ..... MOR  
DRILL STEM TEST NUMBER ..... 1  
REPORT NUMBER ..... 15477  
ELEVATION KELLY BUSHINGS ..... 2424  
TESTING ENGINEER ..... JARED SCHECK

### EXTRA EQUIPMENT

JARS ..... NO  
SAFETY JOINT ..... NO  
ELECTRONIC RECORDER ..... YES  
CIRCULATING SUB ..... NO  
MILES ROUND TRIP FROM GREAT BEND

TOP RECORDER DEPTH ..... 4939  
RECORDER NUMBER ..... 4023

EXTRA PACKER (3RD) ..... NO  
EXTRA PACKER (4TH) ..... NO  
STRADDLE ..... NO  
HOOK WALL ..... NO  
SAMPLER ..... NO  
BOTTOM RECORDER DEPTH ..... 4940  
RECORDER NUMBER ..... 3085

### WELL INFORMATION

DRILLING CONTRACTOR ..... DUKE DRILLING RIG #1  
DRILL PIPE LENGTH .....  
DRILL PIPE I.D. .... 3.8  
TOOL JOINT SIZE ..... 4 1/2 X.H.

CHLORIDES-PITS ..... 4,000  
CHLORIDES-DST .....

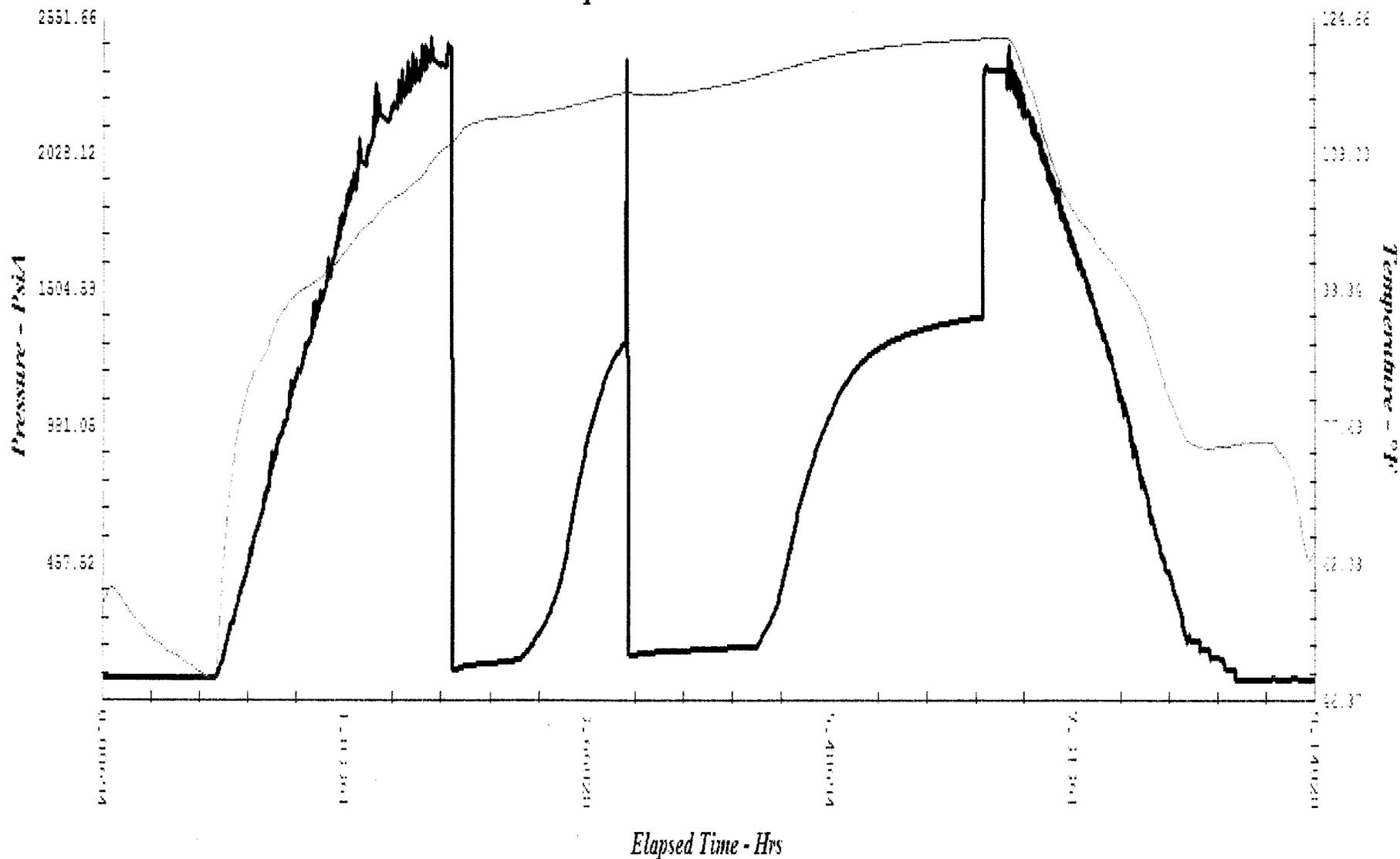
DRILL COLLAR LENGTH .....  
DRILL COLLAR I.D. .... 2.25  
TOOL JOINT SIZE ..... 4 1/2 X.H.

MUD WEIGHT #/GAL ..... 8.7  
VISCOSITY ..... 41  
WATER LOSS ..... 9.6

### COMMENTS



# Temperature / Pressure Data



Tool serial number: 93335  
Test start: 03/14/2008 13:03:54

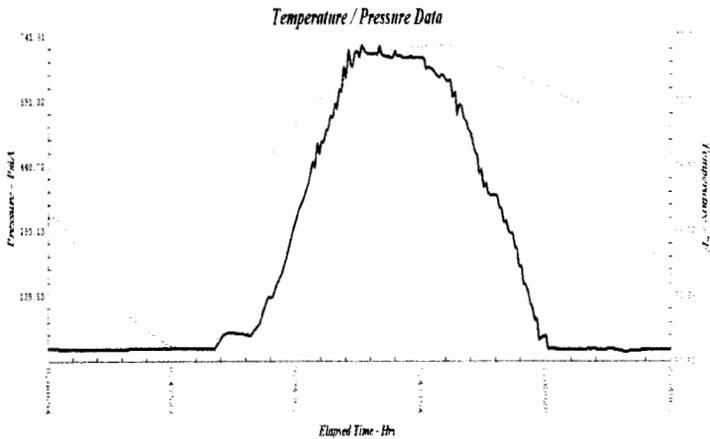


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## DRILL STEM TEST REPORT

GREAT BEND, KANSAS 67530



- 1 Initial Hydrostatic Pressure
- 2 Initial Flow Pressure
- 3 Final Initial Flow Pressure
- 4 Initial Shut-In Pressure
- 5 Initial Final Flow Pressure
- 6 Final Flow Pressure
- 7 Final Shut-In Pressure
- 8 Final Hydrostatic Pressure

Maximum Temperature

Tool Serial Number: 89385  
Date Made: 08/14/2008 22:44:19

Company: RITCHIE EXPLORATION INC  
TWP. 27 RGE. 23  
Lease & Well No. TORLINE 17A #1  
Test #: 2 Date: 3-14-08  
SEC. 17

### GENERAL INFORMATION

COMPANY NAME ..... RITCHIE EXPLORATION INC

TEST DATE ..... 3/14/08

LEASE AND WELL NUMBER ..... TORLINE 17A #1

SECTION-TOWN-RANGE ..... 17-27-23W

FORMATION TESTED ..... MORROW

STATE ..... KANSAS

DRILL STEM TEST NUMBER ..... 2

COUNTY ..... FORD

REPORT NUMBER ..... 15478

ELEVATION GROUND LEVEL ..... 2412

ELEVATION KELLY BUSHINGS ..... 2424

COMPANY REPRESENTATIVE ..... MIKE ENGLEBRETCH TESTING ENGINEER

..... JARED SCHECK

### TOOL SETTING INFORMATION

TEST INTERVAL (From) ..... 4900

TOP PACKER DEPTH ..... 4890

BOTTOM PACKER DEPTH ..... 4900

TEST INTERVAL (to) ..... 4955

NUMBER OF PACKERS ..... 3

ANCHOR LENGTH ..... 55

PACKER SIZE ..... 6 3/4

TOTAL DEPTH (ft) ..... 4955

HOLE SIZE ..... 7 7/8

### FLOW TIMES

*INITIAL OPEN*

*FINAL OPEN*

TOOL OPEN (from) .....

TOOL OPEN (from) .....

TOOL OPEN (to) .....

TOOL OPEN (to) .....

DURATION (min.) .....

DURATION (min.) .....

*INITIAL SHUT-IN*

*FINAL SHUT-IN*

TOOL CLOSED (from) .....

TOOL CLOSED (from) .....

TOOL CLOSED (to) .....

TOOL CLOSED (to) .....

DURATION (min.) .....

DURATION (min.) .....

INITIAL FLOW HIT BRIDGE 1350 IN TO HOLE FROM SURFACE

FINAL FLOW

# SUPERIOR TESTERS ENTERPRISES L.L.C.

## DRILL STEM TEST REPORT

GREAT BEND, KANSAS 67530 (800)792-6902

### GENERAL INFORMATION

COMPANY NAME	..... RITCHIE EXPLORATION INC	LEASE AND WELL NUMBER	..... TORLINE 17A #1
TEST DATE	..... 3/14/08	FORMATION TESTED	..... MORROW
SECTION-TOWN-RANGE	..... 17-27-23W	DRILL STEM TEST NUMBER	..... 2
STATE	..... KANSAS	REPORT NUMBER	..... 15478
COUNTY	..... FORD	ELEVATION KELLY BUSHINGS	..... 2424
ELEVATION GROUND LEVEL	..... 2412	TESTING ENGINEER	..... JARED SCHECK
COMPANY REPRESENTATIVE	..... MIKE ENGLEBRETCH		

### EXTRA EQUIPMENT

JARS	..... NO	EXTRA PACKER (3RD)	..... YES
SAFETY JOINT	..... NO	EXTRA PACKER (4TH)	..... NO
ELECTRONIC RECORDER	..... YES	STRADDLE	..... NO
CIRCULATING SUB	..... NO	HOOK WALL	..... NO
	174 MILES ROUND TRIP FROM	SAMPLER	..... NO
	GREAT BEND		
TOP RECORDER DEPTH	..... 4951	BOTTOM RECORDER DEPTH	..... 4952
RECORDER NUMBER	..... 4023	RECORDER NUMBER	..... 3088

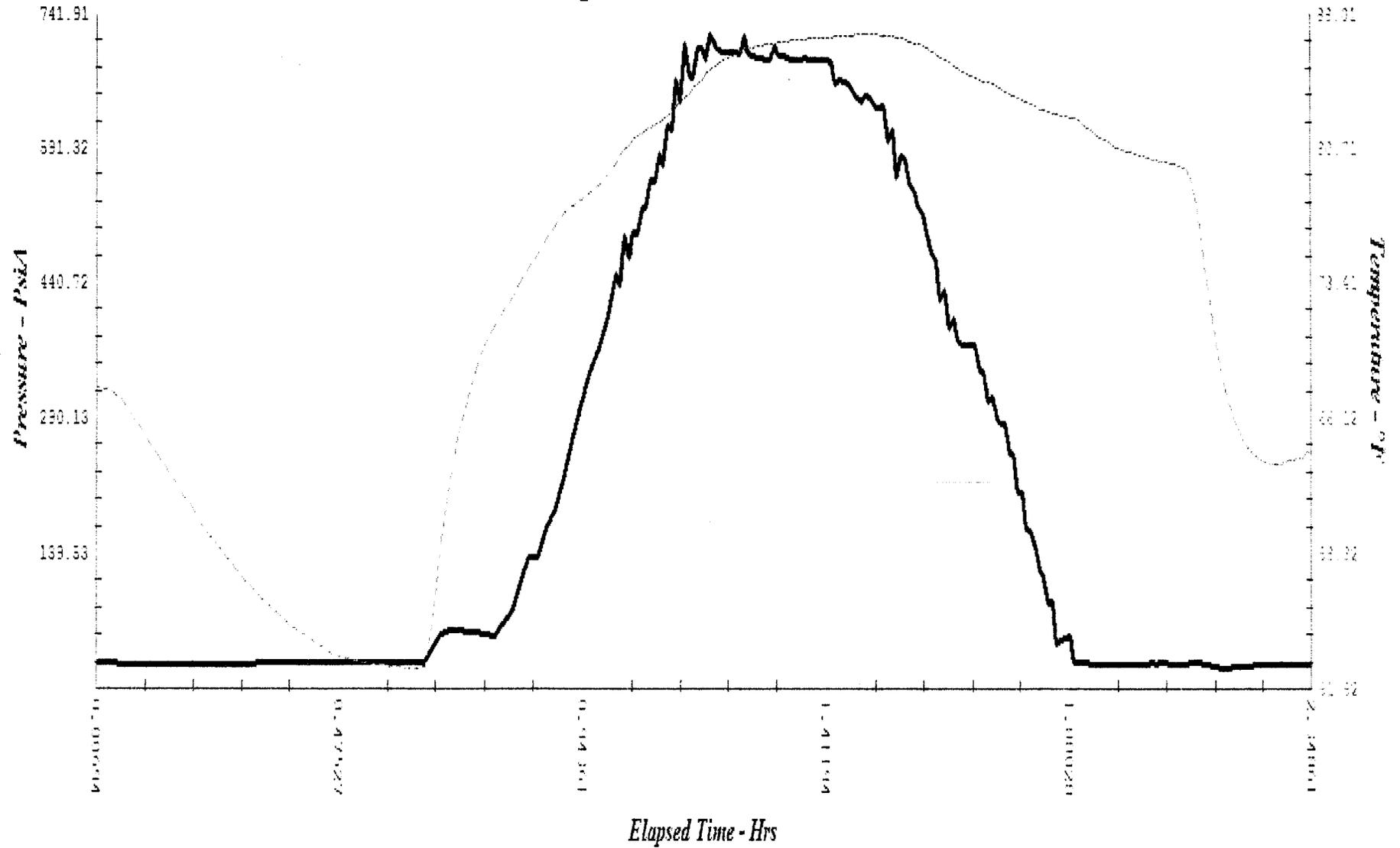
### WELL INFORMATION

DRILLING CONTRACTOR	..... DUKE DRILLING RIG #1	DRILL COLLAR LENGTH	.....
DRILL PIPE LENGTH	.....	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	..... 4.000	MUD WEIGHT #/GAL	..... 9.1
CHLORIDES-DST	.....	VISCOSITY	..... 45
		WATER LOSS	..... 9.2

### COMMENTS



# Temperature / Pressure Data



Tool serial number: 33335  
Test start: 03/14/2008 22:44:18

# Superior Testers Enterprises L.L.C.

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

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Company Rischie Exploration Inc  
 Address PO Box 783188 Wichita KS 67276  
 Lease & # Torline 17A #1 Sec. 17 Twp 27 Rng 23  
 Date 3-15-2008 County Ford Elevation 2412 G.L. 2424 K.B.  
 Drilling Contractor Duke Drilling Rig #1  
 Drill Pipe Length 4874 I.D. of Drill Pipe 3.8 Tool Joint Size 4 1/2 X 4  
 Drill Collar Length \_\_\_\_\_ I.D. of Drill Collars 2.25 Tool Joint Size 4 1/2 X 4  
 Mud Weight 9.1 Viscosity 45 Filtrate 9.2 Chlorides-Pits 4000 DST 50,000  
 Top Packer Depth 4890 / 4895 Bottom Packer Depth 4900 Number of Packers 2  
 Tested From 4900 to 4955 Total Depth 4956 Anchor Length 55  
 Test # 3 Formation Tested Morrow Hole Size 7 7/8  
 Initial Blow Strong Blow Bottom of Bucket in 1 min

Blow back on the 1st Shut-in 4 inch Blow Back

Final Blow Strong Blow Bottom of Bucket in 1 min

Blow back on the 2nd Shut-in 2 inch Blow Back

Initial Hydrostatic 2454 P.S.I. Final Hydrostatic 2406 P.S.I. Maximum Temp. 128 F

Initial Opening <u>283</u> P.S.I. to <u>874</u> P.S.I.	from <u>7:27</u> AM to <u>7:57</u> AM	<u>30</u> minutes
Initial Shut-in <u>1559</u> P.S.I.	from <u>7:57</u> AM to <u>8:42</u> AM	<u>45</u> minutes
Final Opening <u>952</u> P.S.I. to <u>1455</u> P.S.I.	from <u>8:42</u> AM to <u>9:42</u> AM	<u>60</u> minutes
Final Shut-in <u>1556</u> P.S.I.	from <u>9:42</u> AM to <u>10:12</u> AM	<u>90</u> minutes

Feet	Recovery Description	% Gas	% Oil	% Mud	% Water
<u>120</u>	<u>Gas on top fluid</u>				
<u>300</u>	<u>Slightly Gassy oil cut <del>water</del> muddy water</u>	<u>5</u>	<u>5</u>	<u>70</u>	<u>20</u>
<u>300</u>	<u>Slightly Gassy oil cut <del>water</del> muddy water</u>	<u>5</u>	<u>5</u>	<u>50</u>	<u>40</u>
<u>240</u>	<u>Slightly Gassy oil cut muddy water</u>	<u>5</u>	<u>2</u>	<u>14</u>	<u>79</u>
<u>2210</u>	<u><del>water</del> MUD cut water</u>	<u>5</u>		<u>5</u>	<u>90</u>
	<u>Chlor. des 50,000</u>				

Total Feet Recovered 3170 Recovery Chlorides 50 Rw. .2 ohms @ 50 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. 49441 Depth 4952 Extra Packer (3rd) Yes Hook Wall \_\_\_\_\_  
 Bottom Recorder No. 13214 Depth 4953 Extra Packer (4th) \_\_\_\_\_ Sampler \_\_\_\_\_  
 Tool Operator [Signature] Approved By \_\_\_\_\_

Ticket No. **15479**

# SUPERIOR TESTERS ENTERPRISES L.L.C.

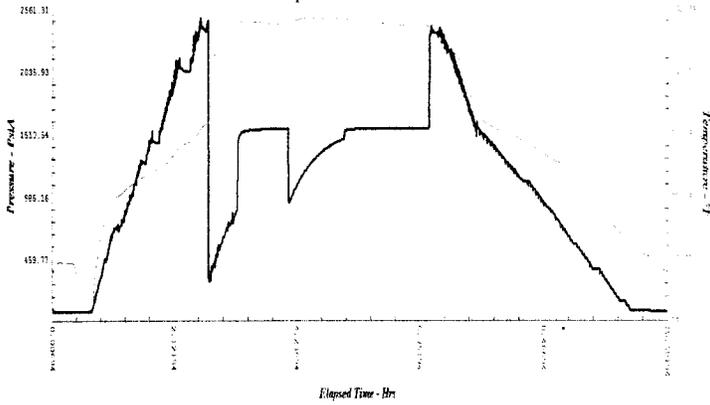
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## DRILL STEM TEST REPORT

GREAT BEND, KANSAS 67530

Company: RITCHIE Lease & Well No. TORLINE 17 A #1 Test #: 3 Date: 3-15-08 SEC. 17 TWP. 27 RGE. 23

*Temperature / Pressure Data*



Tool serial number: 53335  
 Test start: 03/15/2008 15:23:55

1	Initial Hydrostatic Pressure	2454
2	Initial Flow Pressure	283
3	Final Initial Flow Pressure	874
4	Initial Shut-In Pressure	1554
5	Initial Final Flow Pressure	952
6	Final Flow Pressure	1455
7	Final Shut-In Pressure	1556
8	Final Hydrostatic Pressure	2406

Maximum Temperature      128

**GENERAL INFORMATION**

COMPANY NAME ..... RITCHIE EXPLORATION INC

TEST DATE ..... 3/15/08

LEASE AND WELL NUMBER ..... TORLINE 17 A#1

SECTION-TOWN-RANGE ..... 17-27-23W

FORMATION TESTED ..... MORROW

STATE ..... KANSAS

DRILL STEM TEST NUMBER ..... 3

COUNTY ..... FORD

REPORT NUMBER ..... 15479

ELEVATION GROUND LEVEL ..... 2412

ELEVATION KELLY BUSHINGS ..... 2424

COMPANY REPRESENTATIVE ..... MIKE ENGLEBRECHT TESTING ENGINEER ..... JARED SCHECK

**TOOL SETTING INFORMATION**

TEST INTERVAL (From) ..... 4900

TOP PACKER DEPTH ..... 4890

TEST INTERVAL (to) ..... 4956

BOTTOM PACKER DEPTH ..... 4900

ANCHOR LENGTH ..... 55

NUMBER OF PACKERS ..... 2

TOTAL DEPTH (ft) ..... 4956

PACKER SIZE ..... 6 3/4

HOLE SIZE ..... 7 7/8

**FLOW TIMES**

INITIAL OPEN

FINAL OPEN

TOOL OPEN (from) ..... 7:27A

TOOL OPEN (from) ..... 8:42

TOOL OPEN (to) ..... 7:57

TOOL OPEN (to) ..... 9:42

DURATION (min.) ..... 30

DURATION (min.) ..... 60

INITIAL SHUT-IN

FINAL SHUT-IN

TOOL CLOSED (from) ..... 7:57

TOOL CLOSED (from) ..... 9:42

TOOL CLOSED (to) ..... 8:42

TOOL CLOSED (to) ..... 11:12

DURATION (min.) ..... 45

DURATION (min.) ..... 90

**INITIAL FLOW      STRONG BLOW BOTTOM OF BUCKET IN 1 MIN  
 4 INCH BLOW BACK**

**FINAL FLOW      STRONG BLOW BOTTOM OF BUCKET IN 1 MIN  
 2 INCH BLOW BACK**

# SUPERIOR TESTERS ENTERPRISES L.L.C.

## DRILL STEM TEST REPORT

GREAT BEND, KANSAS 67530 (800)792-6902

### GENERAL INFORMATION

COMPANY NAME ..... **RITCHIE EXPLORATION INC**  
TEST DATE ..... **3/15/08** LEASE AND WELL NUMBER ..... **TORLINE 17 A#1**  
SECTION-TOWN-RANGE ..... **17-27-23W** FORMATION TESTED ..... **MORROW**  
STATE ..... **KANSAS** DRILL STEM TEST NUMBER ..... **3**  
COUNTY ..... **FORD** REPORT NUMBER ..... **15479**  
ELEVATION GROUND LEVEL ..... **2412** ELEVATION KELLY BUSHINGS ..... **2424**  
COMPANY REPRESENTATIVE ..... **MIKE ENGLEBRETCH** TESTING ENGINEER ..... **JARED SCHECK**

### EXTRA EQUIPMENT

JARS ..... **NO** EXTRA PACKER (3RD) ..... **YES**  
SAFETY JOINT ..... **NO** EXTRA PACKER (4TH) ..... **NO**  
ELECTRONIC RECORDER ..... **YES** STRADDLE ..... **NO**  
CIRCULATING SUB ..... **NO** HOOK WALL ..... **NO**  
SAMPLER ..... **NO**  
**174 MILES ROUND TRIP FROM GREAT BEND**  
TOP RECORDER DEPTH ..... **4952** BOTTOM RECORDER DEPTH ..... **4953**  
RECORDER NUMBER ..... **4023** RECORDER NUMBER ..... **3086**

### WELL INFORMATION

DRILLING CONTRACTOR ..... **DUKE DRILLING RIG #1**  
DRILL PIPE LENGTH ..... **4874** DRILL COLLAR LENGTH .....  
DRILL PIPE I.D. .... **3.8** DRILL COLLAR I.D. .... **2.25**  
TOOL JOINT SIZE ..... **4 1/2 X.H.** TOOL JOINT SIZE ..... **4 1/2 X.H.**  
CHLORIDES-PITS ..... **4,000** MUD WEIGHT #/GAL ..... **9.1**  
CHLORIDES-DST ..... **50,000** VISCOSITY ..... **45**  
WATER LOSS ..... **9.2**

### COMMENTS

