

Rich Witcher 1-19
15-129-21565

Superior Testers Enterprises, Inc.

R.R. 3, Box 295B, Great Bend, Kansas 67530
(316) 792-6902

- 19-335-42w

ORIGINAL

Date 8-17-1998 Location C 1/2 5/8 - 9/8 19-33-42^W Elevation 3552.61 ^{3552 K.B.} County Morton

Company Harris Oil & Gas Company Number of Copies 5

Charts Mailed to 1125 17th STREET Suite 2290 DENVER Colorado 80202

Drilling Contractor ALLEN Drilling Rig #2

Length Drill Pipe 3750 I.D. Drill Pipe 3.80 Tool Joint Size 4 1/2" X.H.

Length Weight Pipe NONE I.D. Weight Pipe NONE Tool Joint Size NONE

Length Drill Collars 522 I.D. Drill Collars 2.25 Tool Joint Size 4 1/2" X.H.

Top Packer Depth 4295 Bottom Packer Depth 4300 Number of Packers 2 Packer Size 6 3/4"

TESTED FROM 4300 TO 4527 ANCHOR LENGTH 227 TOTAL DEPTH 4527 Hole Size 7 7/8"

LEASE & WELL NO. Rich Witcher 1-19 FORMATION TESTED UPPER MORROW TEST NO. 1

Mud Weight 99 Viscosity 49 Water Loss 0.5 Chlorides - Pits 900 D.S.T. _____

Maximum Temp. 118 °F Initial Hydrostatic Pressure (A) 2772 P.S.I. Final Hydrostatic Pressure (H) 2192 P.S.I.

Tool Open I.F.P. from 9:00 Pm to 9:30 Pm 30 min

Tool Closed I.C.I.P. from 9:30 Pm to 10:00 Pm 30 min

Tool Open F.F.P. from 10:00 Pm to 10:30 Pm 30 min

Tool Closed F.C.I.P. from 10:30 Pm to 11:30 Pm 60 min

Initial Blow WEAK blow for 22 minutes & Dico

Final Blow no blow

Total Feet Recovered 65 Gravity of Oil _____ Corrected _____

65 Feet of Drilling Mud % Gas _____ % Oil _____ % Mud _____ % Water _____

_____ Feet of _____ % Gas _____ % Oil _____ % Mud _____ % Water _____

_____ Feet of _____ % Gas _____ % Oil _____ % Mud _____ % Water _____

_____ Feet of _____ % Gas _____ % Oil _____ % Mud _____ % Water _____

_____ Feet of _____ % Gas _____ % Oil _____ % Mud _____ % Water _____

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_____ Feet of _____ % Gas _____ % Oil _____ % Mud _____ % Water _____

_____ Feet of _____ % Gas _____ % Oil _____ % Mud _____ % Water _____

_____ Feet of _____ % Gas _____ % Oil _____ % Mud _____ % Water _____

_____ Feet of _____ % Gas _____ % Oil _____ % Mud _____ % Water _____

Remarks _____

Extra Equipment - Jars YES Safety Joint YES Extra Packer NONE Straddle NONE Hook Wall NONE

Top Recorder No. 78225 Clock No. Electronic Depth 4520 Cir. Sub NONE Sampler YES

Bottom Recorder No. 13189 Clock No. 47441 Depth 4524 Insurance NONE

Price of Job _____

Tool Operator Jane Swalin

Approved By Darryl B. Benedict

No 13838

| |
|---|
| from [B] <u>161</u> P.S.I. to [C] <u>183</u> P.S.I. |
| [D] <u>202</u> P.S.I. |
| from [E] <u>202</u> P.S.I. to [F] <u>201</u> P.S.I. |
| [G] <u>202</u> P.S.I. |

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RELEASED

DEC 16 2000

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FROM CONFIDENTIAL

DEC 16 1998

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Superior Testers Enterprises, Inc. shall not be liable for damage of any kind to the property or personnel of the one for whom a test is made, of for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test. Tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.

SUPERIOR TESTERS ENTERPRISES INC.

Great Bend, Kansas

CHART DATA

(316) 792-6902

RICH WITCHER #1-19 UPPER MORROW

State KANSAS

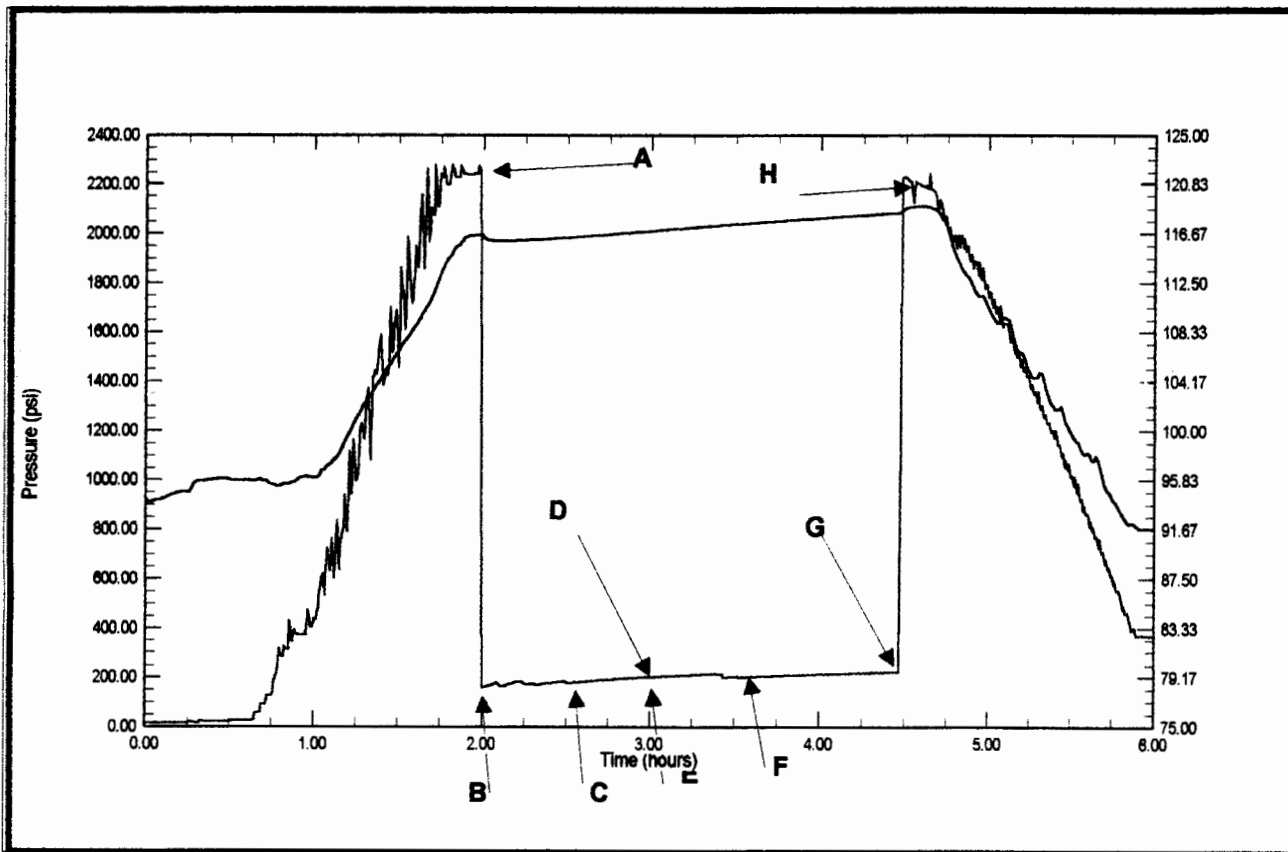
Test Date August 17, 1998

County

Sec Town Range C-N/2-S/E-S/E 19-33S

Field

Report Number 13838



Field Reading

Office Reading

| | | | |
|-----|------------------------------|------|-----|
| (A) | Initial Hydrostatic Pressure | 2240 | psi |
| (B) | Initial Flow Pressure | 161 | psi |
| (C) | Final Initial Flow Pressure | 183 | psi |
| (D) | Initial Shut-In Pressure | 202 | psi |
| (E) | Initial Final Flow Pressure | 202 | psi |
| (F) | Final Flow Pressure | 201 | psi |
| (G) | Final Shut-In Pressure | 222 | psi |
| (H) | Final Hydrostatic Pressure | 2192 | psi |

ELECTRONIC REECORDER DEPTH4520ft,RECORDER NUMBER78225

Company: HARRIS OIL AND GAS COMPANY Lease & Well No. RICH WITCHER #1-19 Test #: 1 Date: 8-17-1998
 SEC. 19 TWP. 33S RGE. 42W
 15-129-21565

SUPERIOR TESTERS ENTERPRISES INC.

DRILL STEM TEST REPORT

GREAT BEND, KANSAS (316)792-6902

General Information

Test Company Name SUPERIOR TESTERS ENTERPRISES INC.
Company Name HARRIS OI AND GAS COMPANY
Lease and Well Number RICH WITCHER #1-19
Formation Tested UPPER MORROW
Test Number 1
State KANSAS
County MORTON
Field
Test Date 17-Aug-98
Section Town Range C-N/2-S/E-S/E 19-33S-42W
Report Number 13838
Elevation Ground Level 3552
Elevation Kelly Bushings 3562
Company Representative DAN SOMMER
Testing Engineer GENE BUDIG

Extra Equipment

Jars YES
Safety Joint YES
Extra Packes No
Straddle No
Hook Wall No
Sampler YES
Circulating Sub No
Electronic Recorder YES

Well Information

Drilling Contractor ALLEN DRILLING RIG #2

Drill Pipe Length 3750
Drill Pipe I.D. 3.8
Tool Joint Size 4 1/2 XH

Weight Pipe Length
Weight Pipe I.D. 2.76
Tool Joint Size 4 1/2 X.H.

Drill Collar Length 522
Drill Collar I.D. 2.25
Tool Joint Size 4 1/2 X.H.

Mud Weight #/gal 9.00
Viscosity 49.00
Water Loss 8.5
Chlorides - Pits 900
Chlorides - DST

SUPERIOR TESTERS ENTERPRISES INC.

DRILL STEM TEST REPORT

GREAT BEND, KANSAS (316)792-6902

Tool Setting Information

Top Packer Depth 4295
Bottom packer Depth 4300
Number of Packers 2
Packer Size 6 3/4

Test Interval (from) 4300
Test Interval (to) 4527.00
Anchor Length 227
Total Depth (ft) 4527
Hole Size (in) 7 7/8

Pressure Readings

| | <i>Field Reading</i> | <i>Office Reading</i> |
|------------------------------------|--------------------------|---------------------------|
| Maximum Temp | 118 | |
| Initial Hydrostatic Pressure | 2240 | |
| Initial Flow Pressure | 161 | |
| Final Initial Flow Pressure | 183 | |
| Initial Shut-In Pressure | 202 | |
| Initial Final Flow Pressure | 202 | |
| Final Flow Pressure | 201 | |
| Final Shut-In Pressure | 222 | |
| Final Hydrostatic Pressure | 2192 | |
| Electronic Recorder Depth | 4520 | |
| Recorder Number | 78225 | |
| Mechanical Recorder Depth | 4524 | |
| Recorder Number | 13189 | |

Comments

SUPERIOR TESTERS ENTERPRISES INC.

DRILL STEM TEST REPORT

GREAT BEND, KANSAS (316)792-6902

Flow Times

Initial Open

Tool Open (from) 9:00
 Tool Open (to) 9:30
 Duration (min) 30

Initial Shut-in

Tool Closed (from) 9:30
 Tool Closed (to) 10:00
 Duration (min) 30

Final Open

Tool Open (from) 10:00
 Tool Open (to) 10:30
 Duration (min) 30

Final Shut-in

Tool Closed (from) 10:30
 Tool Closed (to) 11:30
 Duration (min) 60

Recovery Description

Initial Blow WEAK SURFACE BLOW FOR 22 MINUTES AND DIED

Final Blow NO BLOW

| Description | Feet of Recovery | % Gas | % Oil | % Mud | % Water |
|-----------------|------------------|-------|-------|-------|---------|
| 1) DRILLING MUD | 65 | | | | |
| 2) | | | | | |
| 3) | | | | | |
| 4) | | | | | |
| 5) | | | | | |
| 6) | | | | | |
| 7) | | | | | |
| 8) | | | | | |
| 9) | | | | | |
| 10) | | | | | |
| 11) | | | | | |
| 12) | | | | | |
| 13) | | | | | |
| 14) | | | | | |
| 15) | | | | | |
| Total | 65 | | | | |

SUPERIOR TESTERS ENTERPRISES INC.
DRILL STEM TEST REPORT

GREAT BEND, KANSAS (316)792-6902

Sample Chamber

Oil (cc) 0
Water (cc) 0
Mud (cc) 2200
Gas Volume (cc) 0
Total Volume (cc) 2200
Sampler Capacity (cc) 2200
Sample Pressure (psig) 150

Superior Testers Enterprises, Inc.

R.R. 3, Box 295B, Great Bend, Kansas 67530

(316) 792-6902

ORIGINAL

Date 8-20-1998 Location C-42-9E-9W 19-33-42^N Elevation 3562 K.B. 3552 G.L. County Morton

Company HARRIS OIL & GAS COMPANY Number of Copies 5

Charts Mailed to 1125 17th Street Suite 2290 DENVER COLORADO 80202

Drilling Contractor ALLEN DRILLING RIG #2

Length Drill Pipe 4513 I.D. Drill Pipe 3.80 Tool Joint Size 4 1/2" X 1 1/4"

Length Weight Pipe NONE I.D. Weight Pipe NONE Tool Joint Size NONE

Length Drill Collars 522 I.D. Drill Collars 2.25 Tool Joint Size 4 1/2" X 1 1/4"

Top Packer Depth 5059 Bottom Packer Depth 5064 Number of Packers 2 Packer Size 6 3/4"

TESTED FROM 5064 TO 5200 ANCHOR LENGTH 136 TOTAL DEPTH 5200 Hole Size 7 7/8"

LEASE & WELL NO. Rich Witcher #1-19 FORMATION TESTED SAINT LEWIS TEST NO. 2

Mud Weight 9.4 Viscosity 56 Water Loss 89 Chlorides - Pits 800 D.S.T. 38000

Maximum Temp. 139 °F Initial Hydrostatic Pressure (A) 2535 P.S.I. Final Hydrostatic Pressure (H) 2496 P.S.I.

Tool Open I.F.P. from 2:30 A.M. to 3:00 A.M. 30 min

from [B] 145 P.S.I. to [C] 419 P.S.I.

Tool Closed I.C.I.P. from 3:00 A.M. to 4:00 A.M. 60 min

[D] 1175 P.S.I.

Tool Open F.F.P. from 4:00 A.M. to 5:00 A.M. 60 min

from [E] 395 P.S.I. to [F] 564 P.S.I.

Tool Closed F.C.I.P. from 5:00 A.M. to 7:00 A.M. 120 min

[G] 1174 P.S.I.

Initial Blow WEAK building blow built to 12 inches into the water in 30 minutes

Final Blow WEAK building blow built to 12 inches (Bottom of the Bucket) in 42 minutes

Total Feet Recovered 950 Gravity of Oil _____ Corrected _____

400 Feet of MUD % Gas _____ % Oil _____ % Mud _____ % Water _____

550 Feet of SLIGHTLY MUDDY WATER % Gas _____ % Oil _____ % Mud _____ % Water _____

Feet of _____ % Gas _____ % Oil _____ % Mud _____ % Water _____

Feet of _____ % Gas _____ % Oil _____ % Mud _____ % Water _____

Feet of _____ % Gas _____ % Oil _____ % Mud _____ % Water _____

Feet of _____ % Gas _____ % Oil _____ % Mud _____ % Water _____

Feet of _____ % Gas _____ % Oil _____ % Mud _____ % Water _____

Feet of _____ % Gas _____ % Oil _____ % Mud _____ % Water _____

Feet of _____ % Gas _____ % Oil _____ % Mud _____ % Water _____

Feet of _____ % Gas _____ % Oil _____ % Mud _____ % Water _____

Remarks _____

Extra Equipment - Jars \$285.00 Safety Joint \$35.00 Extra Packer NONE Straddle NONE Hook Wall NONE

Top Recorder No. 78225 Clock No. ELECTRONIC Depth 5193 Cir. Sub. NONE Sampler \$200.00

Bottom Recorder No. 13189 Clock No. 47441 Depth 5197 Insurance NONE

Price of Job \$1400.00

Tool Operator Gene Suda

Approved By Larry G. Benedick
No 13839

Superior Testers Enterprises, Inc. shall not be liable for damage of any kind to the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test. Tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.

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SUPERIOR TESTERS ENTERPRISES INC.

Great Bend, Kansas

CHART DATA

(316) 792-6902

RICH WITCHER #1-19 SAINT LEWIS

State KANSAS

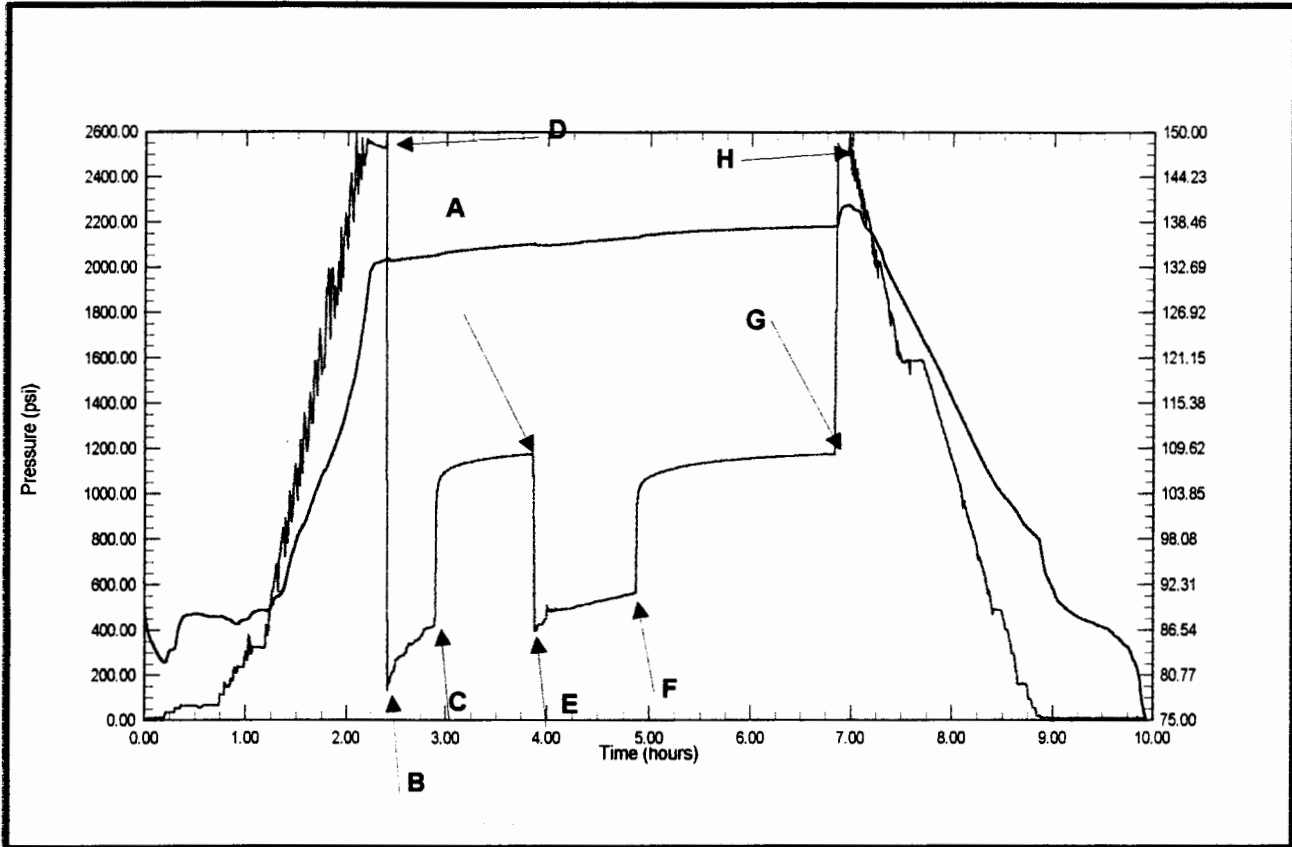
Test Date August 20, 1998

County

Sec Town Range C-N/2-S/E-S/E 19-33S

Field

Report Number 13839



Field Reading

Office Reading

| | | | |
|-----|------------------------------|------|-----|
| (A) | Initial Hydrostatic Pressure | 2535 | psi |
| (B) | Initial Flow Pressure | 145 | psi |
| (C) | Final Initial Flow Pressure | 419 | psi |
| (D) | Initial Shut-In Pressure | 1175 | psi |
| (E) | Initial Final Flow Pressure | 395 | psi |
| (F) | Final Flow Pressure | 564 | psi |
| (G) | Final Shut-In Pressure | 1174 | psi |
| (H) | Final Hydrostatic Pressure | 2496 | psi |

ELECTRONIC REECORDER DEPTH5193ft,RECORDER NUMBER78225

Company: HARRIS OIL & GAS COMPANY Lease & Well No. RICH WITCHER #1-19 Test #:2 Date:8-20-1998
 SEC. 19 TWP. 33S RGE. 42W
 15-129-21565

SUPERIOR TESTERS ENTERPRISES INC.

DRILL STEM TEST REPORT

GREAT BEND, KANSAS (316)792-6902

General Information

Test Company Name SUPERIOR TESTERS ENTERPRISES INC.
Company Name HARRIS OIL AND GAS COMPANY
Lease and Well Number RICH WITCHER #1-19
Formation Tested SAINT LEWIS
Test Number 2
State KANSAS
County MORTON
Field
Test Date 20-Aug-98
Section Town Range C-N/2-S/E-S/E 19-33S-42W
Report Number 13839
Elevation Ground Level 3552
Elevation Kelly Bushings 3562
Company Representative LARRY BENEDICK
Testing Engineer GENE BUDIG

Extra Equipment

Jars YES
Safety Joint YES
Extra Packes No
Straddle No
Hook Wall No
Sampler YES
Circulating Sub No
Electronic Recorder YES

Well Information

Drilling Contractor ALLEN DRILLING RIG #2

Drill Pipe Length 4513
Drill Pipe I.D. 3.8
Tool Joint Size 4 1/2 XH

Weight Pipe Length
Weight Pipe I.D. 2.76
Tool Joint Size 4 1/2 X.H.

Drill Collar Length 522
Drill Collar I.D. 2.25
Tool Joint Size 4 1/2 X.H.

Mud Weight #/gal 9.10
Viscosity 56.00
Water Loss 8
Chlorides - Pits 800
Chlorides - DST *38000*

SUPERIOR TESTERS ENTERPRISES INC.
DRILL STEM TEST REPORT

GREAT BEND, KANSAS (316)792-6902

Tool Setting Information

Top Packer Depth 5059
Bottom packer Depth 5064
Number of Packers 2
Packer Size 6 3/4

Test Interval (from) 5064
Test Interval (to) 5200.00
Anchor Length 136
Total Depth (ft) 5200
Hole Size (in) 7 7/8

Pressure Readings

| | <i>Field Reading</i> | <i>Office Reading</i> |
|------------------------------------|--------------------------|---------------------------|
| Maximum Temp | 139 | |
| Initial Hydrostatic Pressure | 2535 | |
| Initial Flow Pressure | 145 | |
| Final Initial Flow Pressure | 419 | |
| Initial Shut-In Pressure | 1175 | |
| Initial Final Flow Pressure | 395 | |
| Final Flow Pressure | 564 | |
| Final Shut-In Pressure | 1174 | |
| Final Hydrostatic Pressure | 2496 | |
| Electronic Recorder Depth | 5193 | |
| Recorder Number | 78225 | |
| Mechanical Recorder Depth | 5197 | |
| Recorder Number | 13189 | |

Comments

SUPERIOR TESTERS ENTERPRISES INC.

DRILL STEM TEST REPORT

GREAT BEND, KANSAS (316) 792-6902

Flow Times

Initial Open

Tool Open (from) 2:30
 Tool Open (to) 3:00
 Duration (min) 30

Initial Shut-in

Tool Closed (from) 3:00
 Tool Closed (to) 4:00
 Duration (min) 60

Final Open

Tool Open (from) 4:00
 Tool Open (to) 5:00
 Duration (min) 60

Final Shut-in

Tool Closed (from) 5:00
 Tool Closed (to) 7:00
 Duration (min) 120

Recovery Description

Initial Blow WEAK BUILDING BLOW BUILT TO 12 INCHES INTO THE WATER IN 30 MINUTES

Final Blow WEAK BUILDING BLOW BUILT TO 12 INCHES (BOTTOM OF A 5 GALLON BUCKET) IN 42 MINUTES

| Description | Feet of Recovery | % Gas | % Oil | % Mud | % Water |
|-------------------------|------------------|-------|-------|-------|---------|
| 1) MUD | 400 | | | | |
| 2) SLIGHTLY MUDDY WATER | 500 | | | | |
| 3) | | | | | |
| 4) | | | | | |
| 5) | | | | | |
| 6) | | | | | |
| 7) | | | | | |
| 8) | | | | | |
| 9) | | | | | |
| 10) | | | | | |
| 11) | | | | | |
| 12) | | | | | |
| 13) | | | | | |
| 14) | | | | | |
| 15) | | | | | |
| Total | 900 | | | | |

SUPERIOR TESTERS ENTERPRISES INC.
DRILL STEM TEST REPORT

GREAT BEND, KANSAS (316)792-6902

Sample Chamber

Oil (cc) 0
Water (cc) 2000
Mud (cc) 200
Gas Volume (cc) 0
Total Volume (cc) 2200
Sampler Capacity (cc) 2200
Sample Pressure (psig) 225