

AGU Corp.
Miller 'A' 1

7-32s-3w
15-191-22452

Superior Testers Enterprises, Inc.

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

(316) 792-6902

Date 05-09-2008 Location CN 44 1/4 7-32s-3w Elevation 12426L County Sumner

Company AGU CORPORATION Number of Copies 5

Charts Mailed to 123 North Main Attice Kansas 67009

Drilling Contractor VAL Drilling & Rig #3

Length Drill Pipe 1466 I.D. Drill Pipe 3.80 Tool Joint Size 4 1/2" X 11

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

Length Drill Collars 120 I.D. Drill Collars 2.25 Tool Joint Size 4 1/2" X 11

Top Packer Depth 1581 Bottom Packer Depth 1586 Number of Packers 2 Packer Size 6 3/4"

TESTED FROM 1586 TO 1700 ANCHOR LENGTH 114 TOTAL DEPTH 1700 Hole Size 7 1/8"

EASE & WELL NO. Miller #1-A FORMATION TESTED INDIAN ROCK TEST NO. 1

Mud Weight 9.0 Viscosity 36 Water Loss 17.4 Chlorides - Pits 22000 D.S.T.

Maximum Temp. 89 °F Initial Hydrostatic Pressure (A) 854 P.S.I. Final Hydrostatic Pressure (H) 832 P.S.I.

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

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

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

Tool Closed F.C.I.P. from 10:30 A.m. to 11:00 A.m. 30 min

Initial Blow Fair blow built to the bottom of a 5 Gallon bucket in 8 minutes

Final Blow Fair blow built to the bottom of a 5 Gallon bucket in 13 minutes

Total Feet Recovered 20 Gravity of Oil Corrected

20 Feet of Gas mud - no odor of Gas %Gas %Oil %Mud %Water

Feet of Detected in the D.H.P. Pipe %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 yes Safety Joint yes Extra Packer none Straddle none Hook Wall none

Top Recorder No. 91481 Clock No. Electronic Depth 1692 Cir. Sub none Sampler none

Bottom Recorder No. 488 Clock No. 47441 Depth 1699 Insurance none

Price of Job

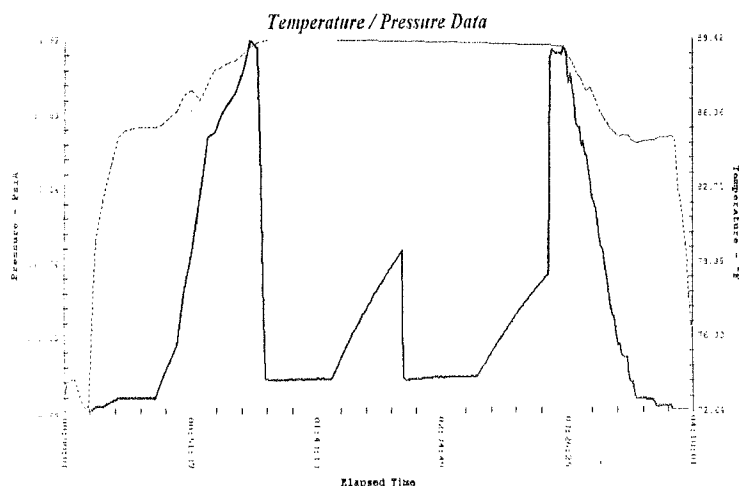
Tool Operator Gene Budig

Approved By

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.

NO 14755

7-32-3w



1	Initial Hydrostatic Pressure	854
2	Initial Flow Pressure	83
3	Final Initial Flow Pressure	88
4	Initial Shut-In Pressure	377
5	Initial Final Flow Pressure	84
6	Final Flow Pressure	93
7	Final Shut-In Pressure	322
8	Final Hydrostatic Pressure	832

Maximum Temperature 89

GENERAL INFORMATION

COMPANY NAME AVG CORPORATION

TEST DATE 5/9/05

SECTION-TOWN-RANGE 7-32S-3W

STATE KANSAS

COUNTY SUMNER

ELEVATION GROUND LEVEL 1242

COMPANY REPRESENTATIVE KENT ROBERTS

LEASE AND WELL NUMBER MILLER #1-A

FORMATION TESTED INDIAN CAVE

DRILL STEM TEST NUMBER 1

REPORT NUMBER 14755

ELEVATION KELLY BUSHINGS 1453

TESTING ENGINEER GENE BUDIG

TOOL SETTING INFORMATION

TEST INTERVAL (From) 1586

TEST INTERVAL (to) 1700

ANCHOR LENGTH 114

TOTAL DEPTH (ft) 1700

TOP PACKER DEPTH 1581

BOTTOM PACKER DEPTH 1586

NUMBER OF PACKERS 2

PACKER SIZE 6 3/4

HOLE SIZE 7 7/8

FLOW TIMES

TOOL OPEN (from) 9:00

INITIAL OPEN TOOL OPEN (to) 9:30

DURATION (min.) 30

TOOL OPEN (from) 10:00

FINAL OPEN TOOL OPEN (to) 10:30

DURATION (min.) 30

TOOL CLOSED (from) 9:30

INITIAL SHUT-IN TOOL CLOSED (to) 10:00

DURATION (min.) 30

TOOL CLOSED (from) 10:30

FINAL SHUT-IN TOOL CLOSED (to) 11:00

DURATION (min.) 30

INITIAL FLOW

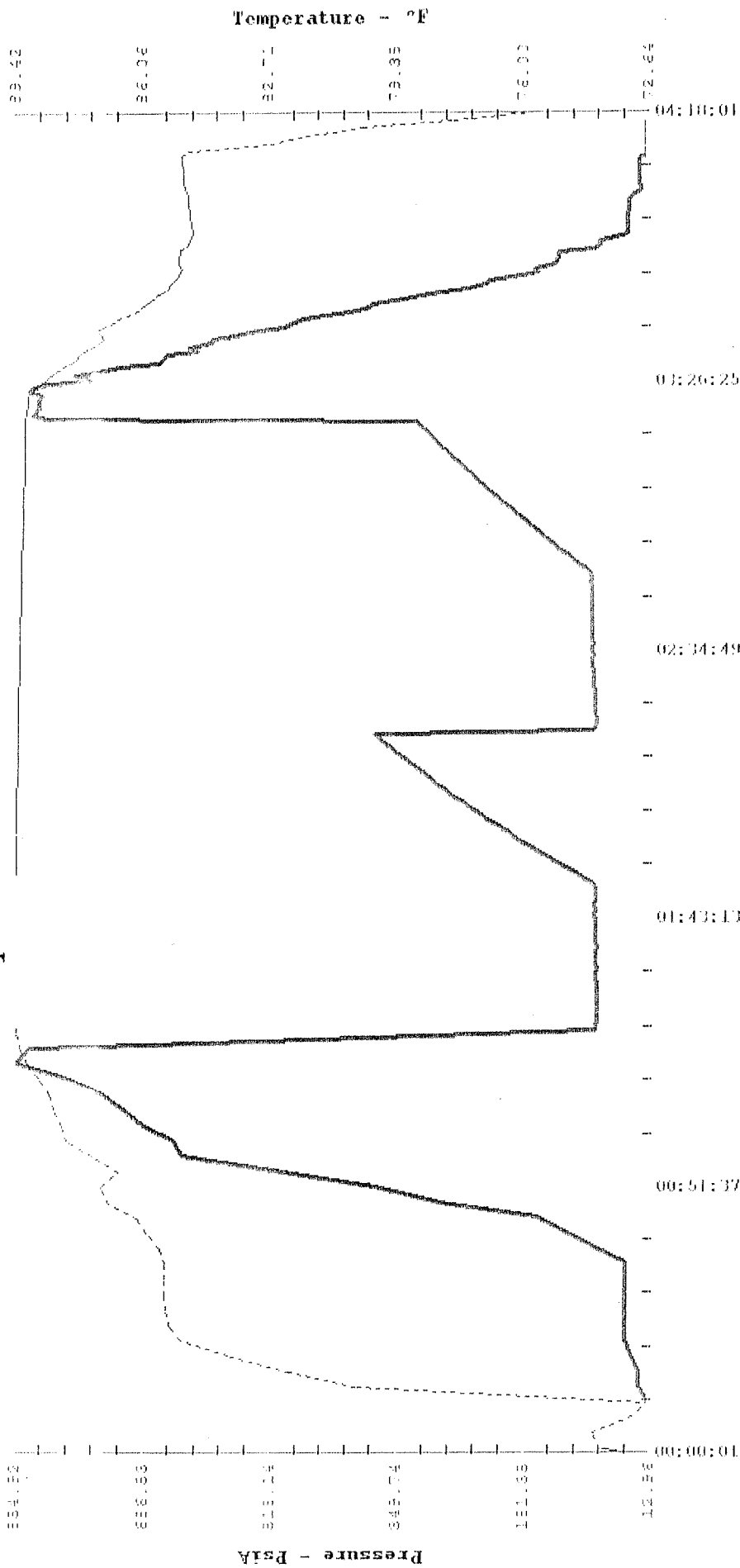
FAIR BLOW BUILT TO THE BOTTOM OF A 5 GALLON BUCKET IN 8 MINUTES

FINAL FLOW

FAIR BLOW BUILT TO THE BOTTOM OF A 5 GALLON BUCKET IN 13 MINUTES

FEET OF Recovery	RECOVERY DESCRIPTION	% GAS	% OIL	% MUD	% WATER
1) 20	GASSY MUD -THERE WAS NO GAS DETECTED IN THE DRILL PIPE				
2)					
3)					
4)					
5)					
6)					

Temperature / Pressure Data



AVG CORPORATION MILLER #1-A 7-2S-3W 05-09-2005

Superior Testers Enterprises, Inc.

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

(316) 792-6902

Date 05-09-2005 Location 7-32°-3'W Elevation 1253 RB 124206 County Sumner

Company AVG CORPORATION Number of Copies 5

Orders Mailed to 123 North MAIN Office Kansas 67009

Drilling Contractor VAL Drilling Rm #3

Length Drill Pipe 1721 I.D. Drill Pipe 2.80 Tool Joint Size 4 1/2" X H

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

Length Drill Collars 120 I.D. Drill Collars 2.25 Tool Joint Size 4 1/2" X H

Top Packer Depth 1862 Bottom Packer Depth 1867 Number of Packers 2 Packer Size 6 3/4"

TESTED FROM 1867 TO 1890 ANCHOR LENGTH 23 TOTAL DEPTH 1890 Hole Size 7 7/8"

EASE & WELL NO. Miller #1-A FORMATION TESTED Langdon Sand TEST NO. 2

Mud Weight 9.9 Viscosity 36 Water Loss 174 Chlorides - Pits 22000 D.S.T. _____

Maximum Temp. 92 °F Initial Hydrostatic Pressure (A) 964 P.S.I. Final Hydrostatic Pressure (H) 946 P.S.I.

Tool Open I.F.P. from 11:00 P.M. to 11:30 P.M. 30 min

Tool Closed I.C.I.P. from 11:30 P.M. to 11:45 P.M. 45 min

Tool Open F.F.P. from 12:15 A.M. to _____ m _____ min

Tool Closed F.C.I.P. from _____ m to 1: m 90 min

Initial Blow Strong Blow with Gas to Surface in 2 minutes

Final Blow Strong Blow - See Gas Flow Report

Total Feet Recovered 70 Gravity of Oil _____ Corrected _____

70 Feet of Coarse 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 _____

_____ 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 yes Safety Joint yes Extra Packer none Straddle none Hook Wall none

Top Recorder No. 9198 Clock No. Electronic Depth 1856 Cir. Sub None Sampler none

Bottom Recorder No. 5463 Clock No. 4744 Depth 1891 Insurance none

Price of Job _____

Tool Operator Ken Budz

Approved By _____

NO 14756

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DRILL STEM TEST REPORT

Company: 3E. 3W

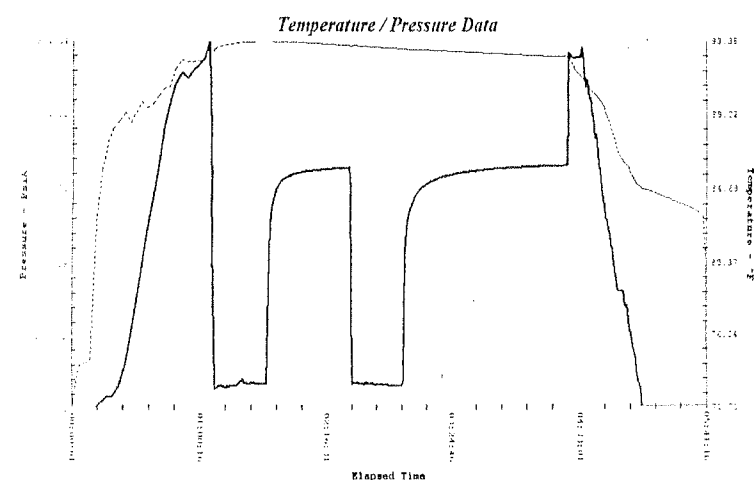
AVG CORPORATION

Lease & Well No.

MILLER #1-A

Test #: 2 Date: 05-09-205

SEC. 7 TWP. 32S



1	Initial Hydrostatic Pressure	964
2	Initial Flow Pressure	63
3	Final Initial Flow Pressure	77
4	Initial Shut-In Pressure	639
5	Initial Final Flow Pressure	76
6	Final Flow Pressure	72
7	Final Shut-In Pressure	646
8	Final Hydrostatic Pressure	946

Maximum Temperature 92

GENERAL INFORMATION

COMPANY NAME AVG CORPORATION

TEST DATE 5/9/05

SECTION-TOWN-RANGE 7-32S-3W

STATE KANSAS

COUNTY SUMNER

ELEVATION GROUND LEVEL 1242

COMPANY REPRESENTATIVE KENT ROBERTS

LEASE AND WELL NUMBER MILLER #1-A

FORMATION TESTED LANGDON SAND

DRILL STEM TEST NUMBER 2

REPORT NUMBER 14756

ELEVATION KELLY BUSHINGS 1253

TESTING ENGINEER GENE BUDIG

TOOL SETTING INFORMATION

TEST INTERVAL (From) 1867

TEST INTERVAL (to) 1890

ANCHOR LENGTH 23

TOTAL DEPTH (ft) 1890

TOP PACKER DEPTH 1862

BOTTOM PACKER DEPTH 1867

NUMBER OF PACKERS 2

PACKER SIZE 6 3/4

HOLE SIZE 7 7/8

FLOW TIMES

TOOL OPEN (from) 11:00

TOOL OPEN (from) 12:15

INITIAL OPEN TOOL OPEN (to) 11:30

FINAL OPEN TOOL OPEN (to)

DURATION (min.) 30

DURATION (min.)

TOOL CLOSED (from) 11:30

TOOL CLOSED (from)

INITIAL SHUT-IN TOOL CLOSED (to) 12:15

FINAL SHUT-IN TOOL CLOSED (to)

DURATION (min.) 45

DURATION (min.)

INITIAL FLOW

STRONG BLOW WITH GAS TO SURFACE IN 2 MINUTES

FINAL FLOW

STRONG BLOW-SEE GAS FLOW REPORT

FEET OF	RECOVERY	%	%	%	%
Recovery	DESCRIPTION	GAS	OIL	MUD	WATER
1) 70	GASSY MUD				
2)					
3)					
4)					
5)					
6)					

SUPERIOR TESTERS ENTERPRISES INC.

DRILL STEM TEST REPORT

GREAT BEND, KANSAS 67530 (800)792-6902

GENERAL INFORMATION

COMPANY NAME AVG CORPORATION	LEASE AND WELL NUMBER MILLER #1-A
TEST DATE 5/9/05	FORMATION TESTED LANGDON SAND
SECTION-TOWN-RANGE 7-32S-3W	DRILL STEM TEST NUMBER 2
STATE KANSAS	REPORT NUMBER 14756
COUNTY SUMNER	ELEVATION KELLY BUSHINGS 1253
ELEVATION GROUND LEVEL 1242	TESTING ENGINEER GENE BUDIG
COMPANY REPRESENTATIVE KENT ROBERTS	

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
34 MILES ROUND TRIP FROM WELL HEAD	
TOP RECORDER DEPTH 1886	BOTTOM RECORDER DEPTH 1885
RECORDER NUMBER 91981	RECORDER NUMBER 5463

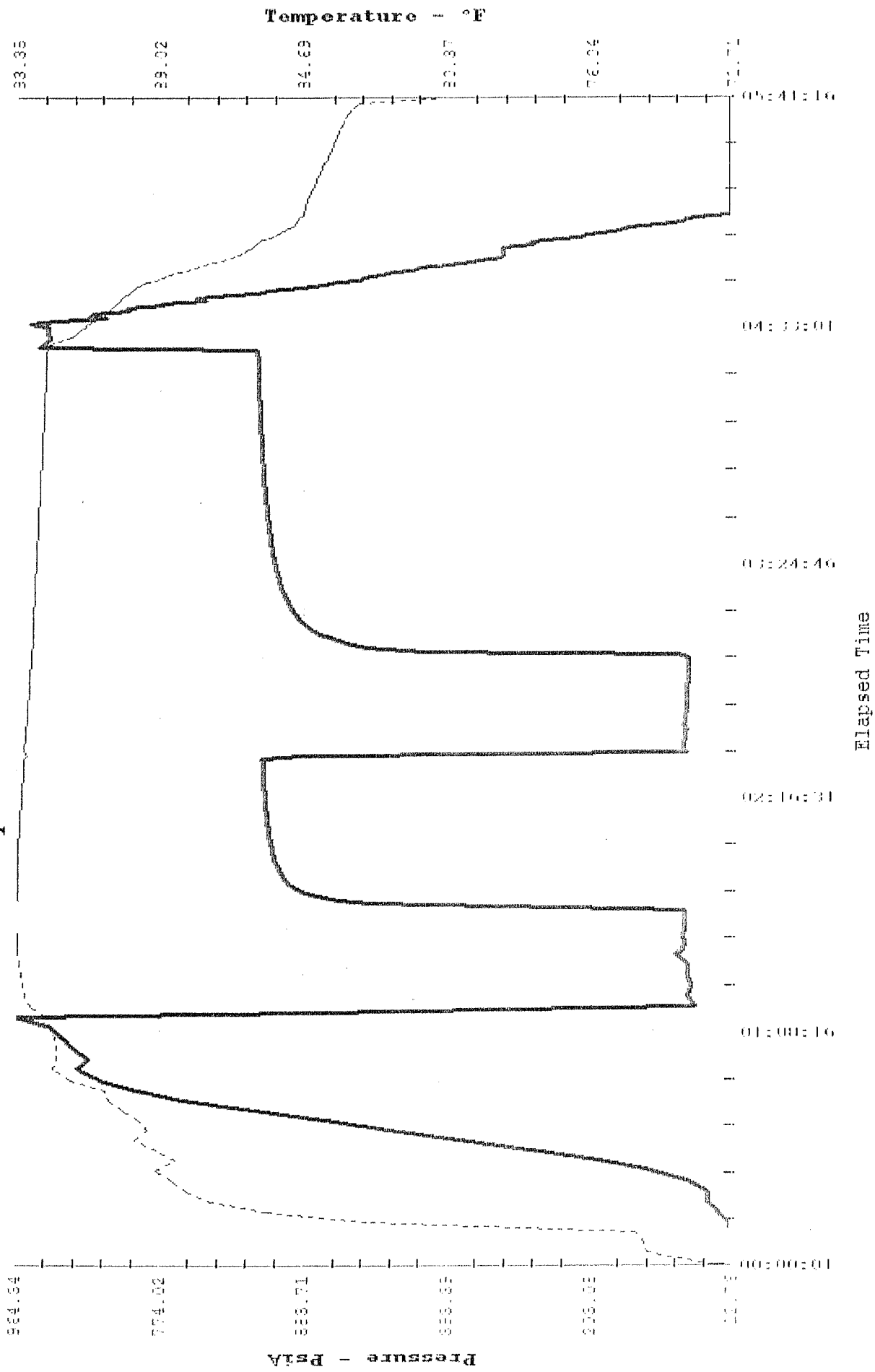
WELL INFORMATION

DRILLING CONTRACTOR VAL DRILLING RIG #3	
DRILL PIPE LENGTH 1721	DRILL COLLAR LENGTH 90
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.
WEIGHT PIPE LENGTH	MUD WEIGHT #/GAL 9
WEIGHT PIPE I.D. 2.25	VISCOSITY 36
TOOL JOINT SIZE 4 1/2 X.H.	WATER LOSS 17.2
	CHLORIDES-PITS 22000
	CHLORIDES-DST

COMMENTS

#

Temperature / Pressure Data



SUPERIOR TESTERS ENTERPRISES INC.

GREAT BEND, KANSAS

SUPERPOSITION ANALYSIS

(800) 792-6902

2ND SHUT-IN

State KANSAS

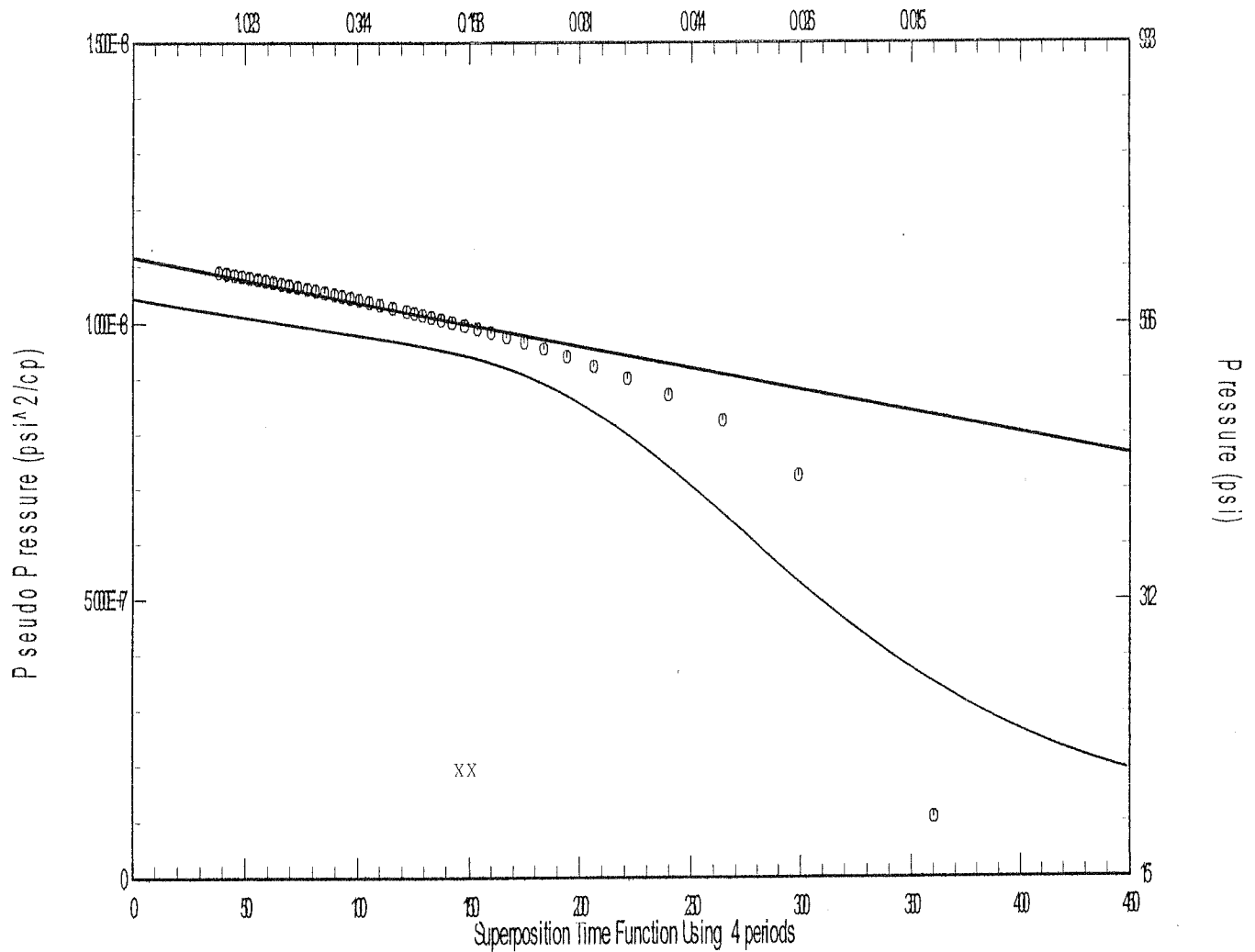
Test Date

County SUMNER

Sec Town Range 7-32S-3W

Field

Report Number 14756



MODEL RESULTS

Constant Storage
C1 : 7.00E-4 bbl/psi

Skin Model
Skin : 6.00

Homogeneous
k : 2.125 md
Est PI: 615.1 psi

No Boundries

h : 6 ft
mu : 0.026 cp
phi : 13.0%
c : 1.22E-03 1/psi
rw : 3.23 ft
BHT : 92 F
FVF : 1.05

Field :
County or Parish :
State :

Date Printed: 05/10/05 15:42:12
Analysis Period : 2nd shut in
Comment : Line #

Superposition Slope -> m' -78480.140000
Horner Slope -> m -1.655931E+7
Intercept 1.116E+8
P(dt=1 hr) 1.076E+8
Pwf 8.037E+6
R Sqr -1.0000

Intercept (psi) 663.885
k (md) 1.91901
kh (md-ft) 11.51405
k/u (md/cp) 72.96600
kh/uB (md-ft/cp) 437.79645
Skin 5.4443
DP Skin 429.1698
Total DP 592.4403
Percent DP 72.44%

Radius Invest (ft) 23
Radius Time (hrs) 1.49

Delta Q = 211
h (ft)= 6
mu (cp) = 0.0263
B (stb/scf) = 1.0580

First Point # -1
Second Point # -1
Start Real Time
End Real Time
Start SF Time

SUPERIOR TESTERS ENTERPRISES INC.

GREAT BEND, KANSAS

SUPERPOSITION ANALYSIS

800) 792-6902

1ST SHUT-IN

State KANSAS

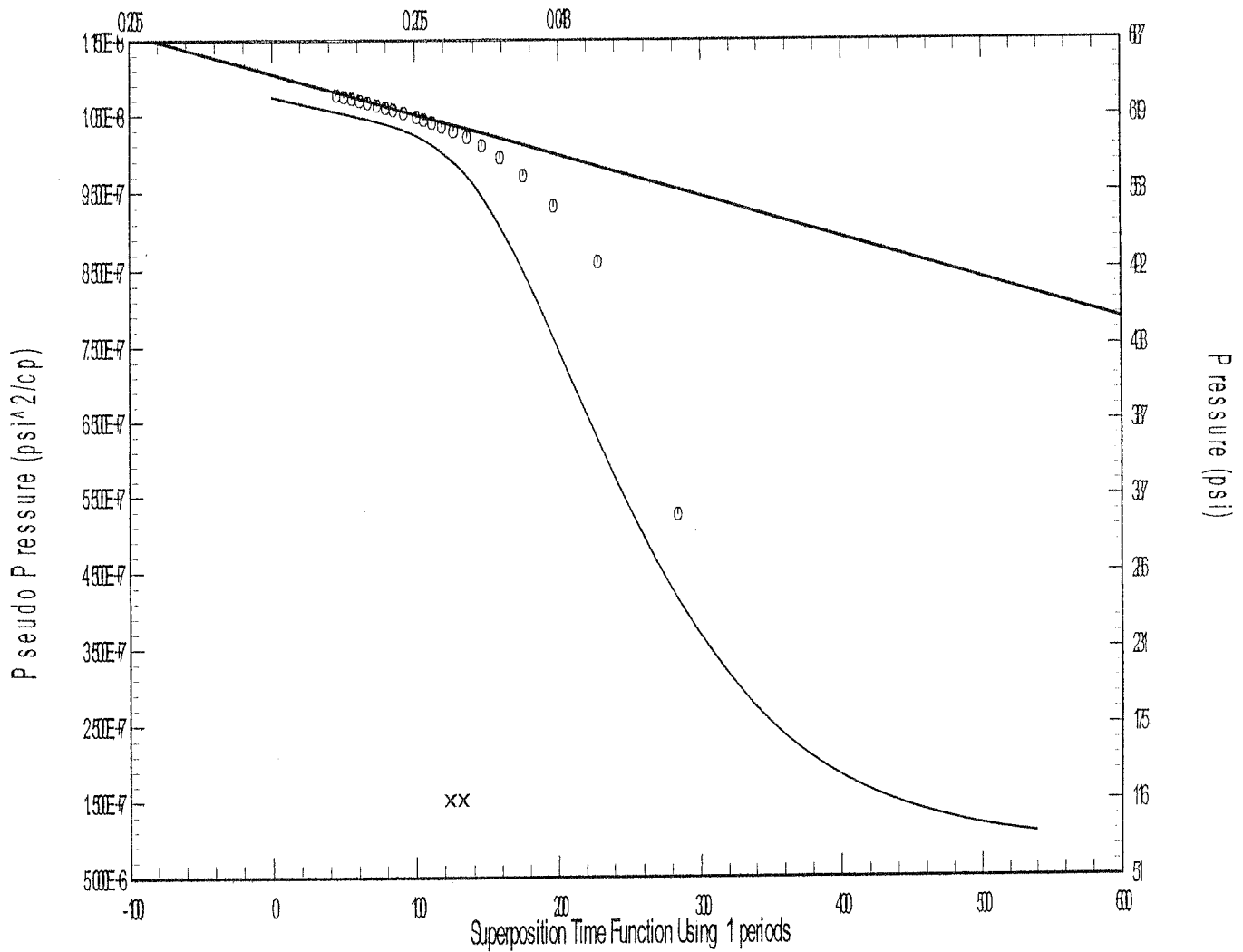
Test Date

County SUMNER

Sec Town Range 7-32S-3W

Field

Report Number 14756



MODEL RESULTS

Constant Storage
C1 : 7.00E-4 bbl/psi

Skin Model
Skin : 11.00

Homogeneous
k : 3.36 md
Est PI: 635.9 psi

No Boundries

h : 6 ft
mu : 0.025 cp
phi : 18.0%
d : 1.22E-03 Vpsi
rw : 3.20 ft
BHT : 92 F
FVF : 1.05

Field :
County or Parish :
State :

Date Printed: 05/10/05 15:35:33
Analysis Period : 1st shut in
Comment : Line #

Superposition Slope -> m' -53530.290000
Horner Slope -> m -1.038488E+7
Intercept 1.105E+8
P(dt=1 hr) 1.088E+8
Pwf 8.861E+6
R Sqr -1.0000

Intercept (psi) 656.755
k (md) 2.81344
kh (md-ft) 16.88061
k/u (md/cp) 106.9717
kh/uB (md-ft/cp) 641.84829
Skin 9.4102
DD Skin 468.9267
Total DP 579.8189
Percent DP 80.87%

Radius Invest (ft) 19
Radius Time (hrs) 0.75

Delta Q = 194
h (ft)= 6
mu (cp) = 0.0263
B (stb/scf) = 1.0580

First Point # -1
Second Point # -1
Start Real Time
End Real Time
Start SF Time

Superior Testers Enterprises, Inc.

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

(316) 792-6902

Date 05-10-2009 Location 7-32⁵-3W Elevation 1253 K6 12426L County Sumner

Company AVG Co. Mechanical Number of Copies 5

Charts Mailed to 123 North Main Attn: Kansas 67009

Drilling Contractor VAL Drilling Rig #3

Length Drill Pipe 1922 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 90 I.D. Drill Collars 2.25 Tool Joint Size 4 1/2" X H

Top Packer Depth 2034 Bottom Packer Depth 2039 Number of Packers 2 Packer Size 6 3/4"

TESTED FROM 2039 TO 2080 ANCHOR LENGTH 41 TOTAL DEPTH 2080 Hole Size 7 7/8"

LEASE & WELL NO. Miller #1-A FORMATION TESTED White Cloud TEST NO. 3

Mud Weight 9.9 Viscosity 38 Water Loss 11 1/2 Chlorides - Pits 18000 D.S.T. 86000

Maximum Temp. 95 °F Initial Hydrostatic Pressure (A) 736 P.S.I. Final Hydrostatic Pressure (H) 1047 P.S.I.

Tool Open I.F.P. from 2:55 p.m. to 3:05 p.m. 10 min

Tool Closed I.C.I.P. from 3:05 p.m. to 3:50 p.m. 45 min

Tool Open F.F.P. from 3:50 p.m. to 4:05 p.m. 15 min

Tool Closed F.C.I.P. from 4:05 p.m. to 4:55 p.m. 45 min

Initial Blow Strong blow Gas to Surface in 3 1/2 minutes

Final Blow Strong blow See Gas Flow Report

Total Feet Recovered _____ Gravity of Oil _____ Corrected

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

0000 Feet of water this mud %Gas _____ %Oil _____ %Mud _____ %Water _____

100 Feet of 18000 water - Chlorides 86000 %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 70 Safety Joint yes Extra Packer none Straddle none Hook Wall none

Top Recorder No. 91981 Clock No. Electron Depth 2076 Cir. Sub none Sampler none

Bottom Recorder No. 5463 Clock No. 87441 Depth 2077 Insurance none

Price of Job _____

Tool Operator Gene Rudy

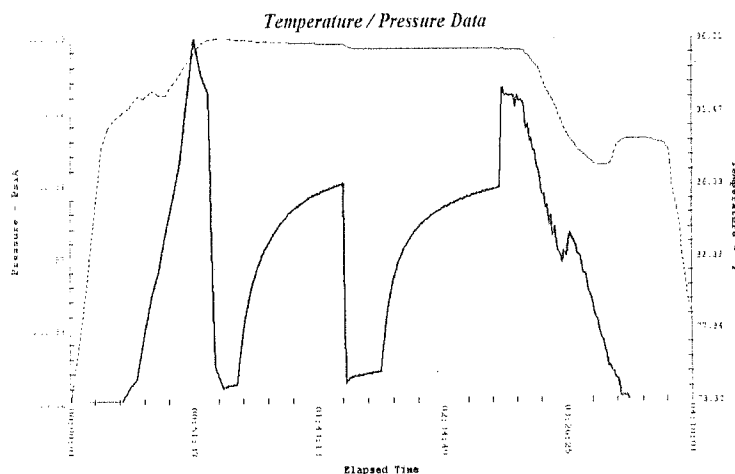
Approved By _____

No 14757

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DRILL STEM TEST REPORT

GREAT BEND, KANSAS 67530



1	Initial Hydrostatic Pressure	1071
2	Initial Flow Pressure	60
3	Final Initial Flow Pressure	71
4	Initial Shut-In Pressure	736
5	Initial Final Flow Pressure	73
6	Final Flow Pressure	112
7	Final Shut-In Pressure	723
8	Final Hydrostatic Pressure	1047

Maximum Temperature 95

GENERAL INFORMATION

COMPANY NAME AGV CORPORATION

TEST DATE 5/10/05

SECTION-TOWN-RANGE 7-32S-3W

STATE KANSAS

COUNTY SUMNER

ELEVATION GROUND LEVEL 1242

COMPANY REPRESENTATIVE KENT ROBERTS

LEASE AND WELL NUMBER MILLER #1-A

FORMATION TESTED WHITE CLOUD

DRILL STEM TEST NUMBER 3

REPORT NUMBER 14757

ELEVATION KELLY BUSHINGS 1453

TESTING ENGINEER GENE BUDIG

TOOL SETTING INFORMATION

TEST INTERVAL (From) 2039

TEST INTERVAL (to) 2080

ANCHOR LENGTH 41

TOTAL DEPTH (ft) 2080

TOP PACKER DEPTH 2034

BOTTOM PACKER DEPTH 2039

NUMBER OF PACKERS 2

PACKER SIZE 6 3/4

HOLE SIZE 7 7/8

FLOW TIMES

TOOL OPEN (from) 2:55

INITIAL OPEN TOOL OPEN (to) 3:05

DURATION (min.) 10

TOOL OPEN (from) 3:50

FINAL OPEN TOOL OPEN (to) 4:05

DURATION (min.) 15

TOOL CLOSED (from) 3:05

INITIAL SHUT-IN TOOL CLOSED (to) 3:50

DURATION (min.) 45

TOOL CLOSED (from) 4:05

FINAL SHUT-IN TOOL CLOSED (to) 4:50

DURATION (min.) 45

INITIAL FLOW

STRONG BLOW WITH GAS TO SURFACE IN 3 1/2 MINUTES

FINAL FLOW

STRONG BLOW SEE GAS FLOW REPORT

FEET OF	RECOVERY	%	%	%	%
Recovery	DESCRIPTION	GAS	OIL	MUD	WATER
1) 40	GASSY MUD				
2) 60	WATERY THIN MUD				
3) 60	MUDDY WATER				
4)					
5)					
6)					

Company: AGV CORPORATION
 Lease & Well No. MILLER #1-A
 Test #: 3
 Date: 05-10-2005
 SEC. 7 TWP.

SUPERIOR TESTERS ENTERPRISES INC.

DRILL STEM TEST REPORT

GREAT BEND ,KANSAS 67530 (800)792-6902

GENERAL INFORMATION

COMPANY NAME	AVG CORPORATION	LEASE AND WELL NUMBER	MILLER #1-A
TEST DATE	5/10/05	FORMATION TESTED	WHITE CLOUD
SECTION-TOWN-RANGE	7-32S-3W	DRILL STEM TEST NUMBER	3
STATE	KANSAS	REPORT NUMBER	14757
COUNTY	SUMNER	ELEVATION KELLY BUSHINGS	1453
ELEVATION GROUND LEVEL	1242	TESTING ENGINEER	GENE BUDIG
COMPANY REPRESENTATIVE	KENT ROBERTS		

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
34 MILES ROUND TRIP FROM WELLINGTON			
TOP RECORDER DEPTH	2076	BOTTOM RECORDER DEPTH	2075
RECORDER NUMBER	91981	RECORDER NUMBER	5463

WELL INFORMATION

DRILLING CONTRACTOR	VAL DRILLING RIG #5	DRILL COLLAR LENGTH	
DRILL PIPE LENGTH	1922	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.		
WEIGHT PIPE LENGTH		MUD WEIGHT #/GAL	9
WEIGHT PIPE I.D.	2.25	VISCOSITY	38
TOOL JOINT SIZE	4 1/2 X.H.	WATER LOSS	11.8
		CHLORIDES-PITS	18000
		CHLORIDES-DST	

COMMENTS

SUPERIOR TESTERS ENTERPRISES INC.

GREAT BEND, KANSAS

GAS FLOW RATE

(800) 792-6902

#

STATE..... KANSAS

Test Date 1/0/1900

COUNTY..... SUMNER

Sec Town Range 7-32S-3W

FLD.....

Report Number 14757

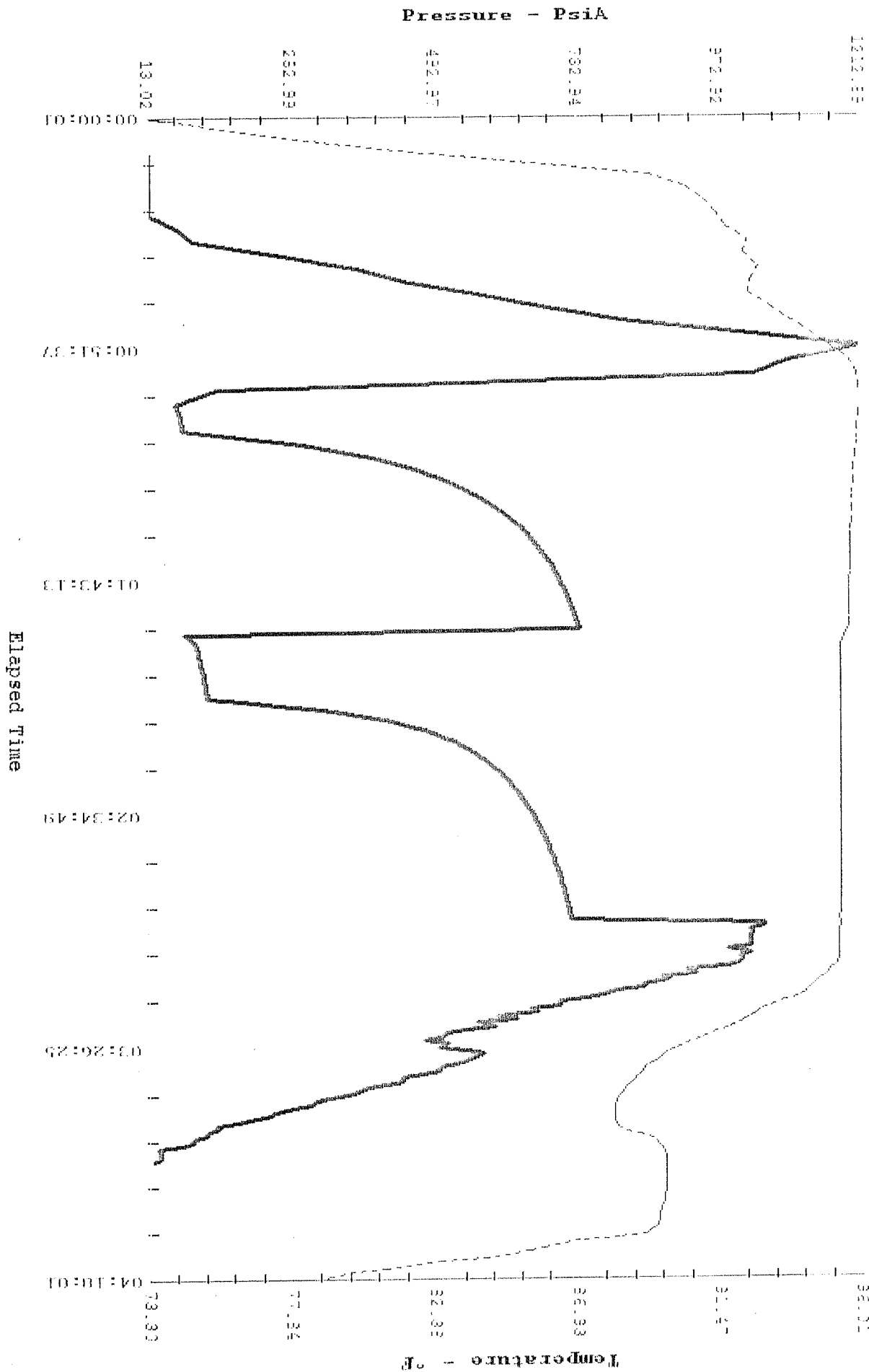
Initial Flow

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 OPENED AT	3:00	5		3		3/4	92.000
2:55	3:05	10	20			3/8	15.000
GAS TO SURFACE							
IN 3 1/2							
MINUTES							

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 OPENED	4:00	10	60			3/8	27.600
AT 3:50	4:05	15	15			1/8	2.050

Temperature / Pressure Data



AVG CORPORATION

MILLER #1-A

7-32S-3W

05-10-2005

Superior Testers Enterprises, Inc.

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

(316) 792-6902

Date 05-11-2005 Location 7-25-3 W Elevation 1253 MB County Sumner
Company AGU Cooperative Number of Copies 2

Charts Mailed to 123 North Main, Atchison Kansas 67009

Drilling Contractor 1st Drilling Rig #3

Length Drill Pipe 1900 I.D. Drill Pipe 3.80 Tool Joint Size 4 1/2" X 4"

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

Length Drill Collars 90 I.D. Drill Collars 2.25 Tool Joint Size 4 1/2" X 4"

Top Packer Depth 2111 Bottom Packer Depth 2116 Number of Packers 2 Packer Size 6 3/4"

TESTED FROM 2116 TO 2150 ANCHOR LENGTH 34 TOTAL DEPTH 2150 Hole Size 7 7/8"

LEASE & WELL NO. Miller #1-A FORMATION TESTED Howard TEST NO. 1

Mud Weight 9.9 Viscosity 38 Water Loss 118 Chlorides - Pits 18000 D.S.T. _____

Maximum Temp. 95 °F Initial Hydrostatic Pressure (A) 1077 P.S.I. Final Hydrostatic Pressure (H) 1062 P.S.I.

Tool Open I.F.P. from 2:10 A.M. to 2:40 A.M. 30 min

Tool Closed I.C.I.P. from 2:40 A.M. to 3:25 A.M. 45 min

Tool Open F.F.P. from 3:25 A.M. to 4:10 A.M. 45 min

Tool Closed F.C.I.P. from 4:10 A.M. to 5:10 A.M. 60 min

Initial Blow Strong blow bottom of a 5 Gallon Bucket in 30 seconds & decreases

Final Blow Strong blow built to the bottom of a 5 Gallon Bucket in 30 seconds & decreases

Total Feet Recovered 160 Gravity of Oil _____ Corrected _____

160 Feet of muddy water CHLORIDES 203000 % 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 to surface in 40 minutes into % Gas _____ % Oil _____ % Mud _____ % Water _____

_____ Feet of the second open to small to measure % Gas _____ % Oil _____ % Mud _____ % Water _____

_____ Feet of would burn % 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. 91941 Clock No. Electron Depth 2146 Cir. Sub none Sampler none

Bottom Recorder No. 5463 Clock No. 47441 Depth 2145 Insurance none

Price of Job _____

Tool Operator Gene Budy

Approved By _____

Nº 14758

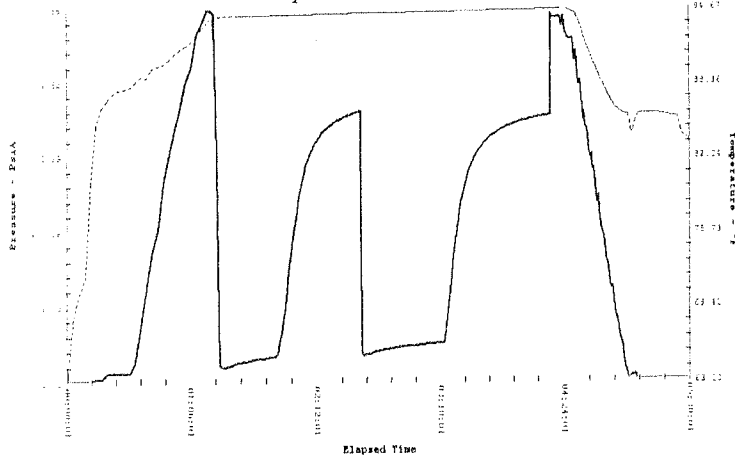
Superior Testers Enterprises, Inc. shall not be liable for damage of any kind to the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test.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

DRILL STEM TEST REPORT

GREAT BEND, KANSAS 67530

Company: AGV CORPORATION
 S RGE. 3W
 Lease & Well No. MILLER #1-A
 Test #: 4
 Date: 05-11-2005
 SEC. 7 TWP.

Temperature / Pressure Data



1	Initial Hydrostatic Pressure	1077
2	Initial Flow Pressure	54
3	Final Initial Flow Pressure	83
4	Initial Shut-In Pressure	782
5	Initial Final Flow Pressure	83
6	Final Flow Pressure	122
7	Final Shut-In Pressure	771
8	Final Hydrostatic Pressure	1062

Maximum Temperature 95

GENERAL INFORMATION

COMPANY NAME AGV CORPORATION

TEST DATE 5/11/05

SECTION-TOWN-RANGE 78-32S-3W

STATE KANSAS

COUNTY SUMNER

ELEVATION GROUND LEVEL 1242

COMPANY REPRESENTATIVE KENT ROBERTS

LEASE AND WELL NUMBER MILLER #1-A

FORMATION TESTED HOWARD

DRILL STEM TEST NUMBER 4

REPORT NUMBER 14758

ELEVATION KELLY BUSHINGS 1253

TESTING ENGINEER GENE BUDIG

TOOL SETTING INFORMATION

TEST INTERVAL (From) 2116

TEST INTERVAL (to) 2150

ANCHOR LENGTH 34

TOTAL DEPTH (ft) 2150

TOP PACKER DEPTH 2111

BOTTOM PACKER DEPTH 2116

NUMBER OF PACKERS 2

PACKER SIZE 6 3/4

HOLE SIZE 7 7/8

FLOW TIMES

TOOL OPEN (from) 2:10

INITIAL OPEN TOOL OPEN (to) 2:40

DURATION (min.) 30

TOOL OPEN (from) 3:25

FINAL OPEN TOOL OPEN (to) 4:10

DURATION (min.) 45

TOOL CLOSED (from) 2:40

INITIAL SHUT-IN TOOL CLOSED (to) 3:25

DURATION (min.) 45

TOOL CLOSED (from) 4:10

FINAL SHUT-IN TOOL CLOSED (to) 5:10

DURATION (min.) 60

INITIAL FLOW STRONG BLOW BUILT TO THE BOTTOM OF A 5 GALLON BUCKET IN 30 SECONDS
 AND DECREASED TO A FAIR BLOW

FINAL FLOW STRONG BLOW BUILT TO THE BOTTOM OF A 5 GALLON BUCKET IN 30 SECONDS
 AND DECREASED TO A FAIR BLOW

FEET OF	RECOVERY	%	%	%	%
Recovery	DESCRIPTION	GAS	OIL	MUD	WATER
1) 160	GASSY MUDDY WATER -CHLORIDES 203000				
2)					
3)					
4)	GAS TO SURFACE IN 40 MINUTES INTO THE 2ND OPENING				
5)	IT WAS TOO SMALL TO MEASURE AND IT DID BURN				
6)					

SUPERIOR TESTERS ENTERPRISES INC.

DRILL STEM TEST REPORT

GREAT BEND ,KANSAS 67530 (800)792-6902

GENERAL INFORMATION

COMPANY NAME	AGV CORPORATION	LEASE AND WELL NUMBER	MILLER #1-A
TEST DATE	5/11/05	FORMATION TESTED	HOWARD
SECTION-TOWN-RANGE	78-32S-3W	DRILL STEM TEST NUMBER	4
STATE	KANSAS	REPORT NUMBER	14758
COUNTY	SUMNER	ELEVATION KELLY BUSHINGS	1253
ELEVATION GROUND LEVEL	1242	TESTING ENGINEER	GENE BUDIG
COMPANY REPRESENTATIVE	KENT ROBERTS		

EXTRA EQUIPMENT

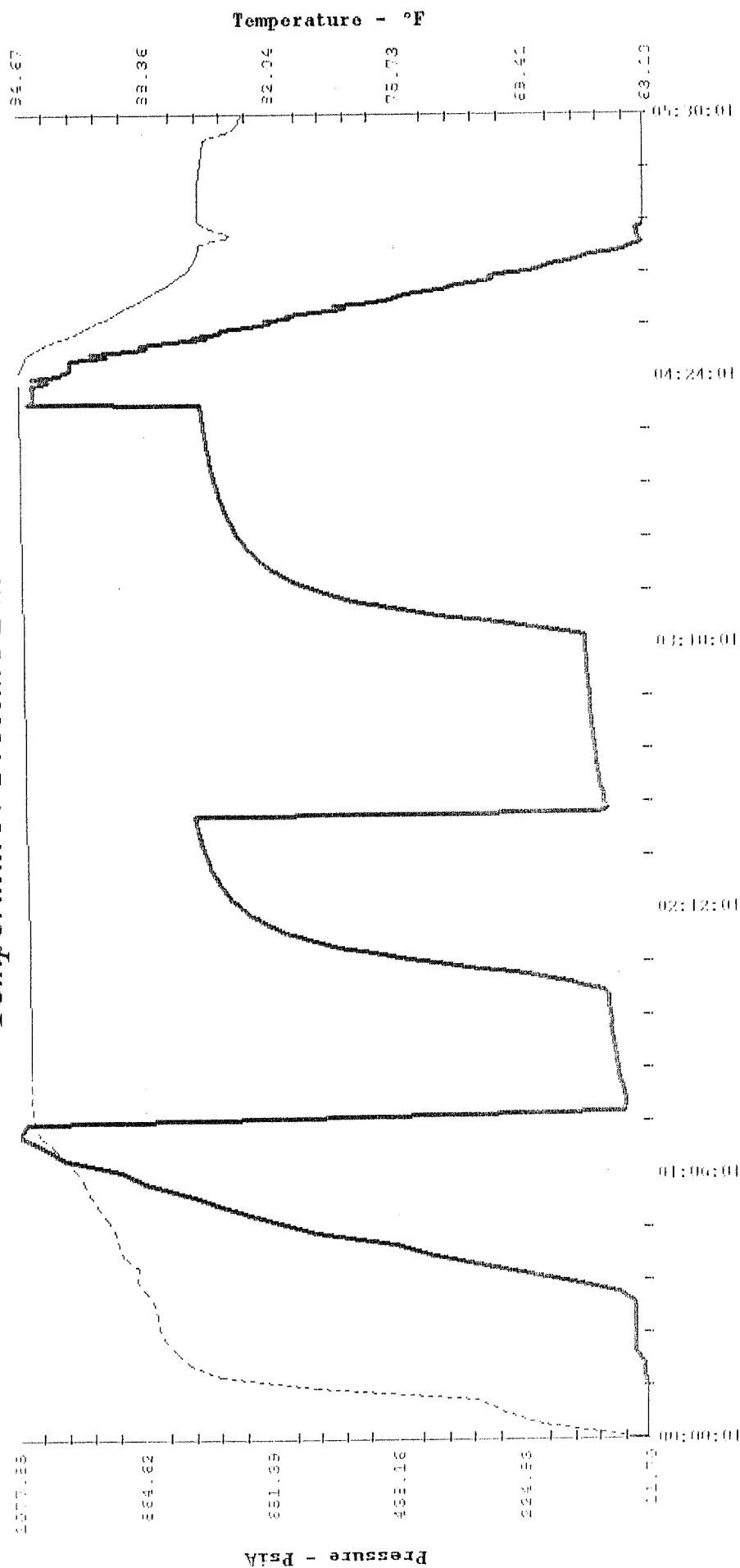
JARS	YES	EXTRA PACKER (3RD)	NO
SAFETY JOINT	YES	EXTRA PACKER (4TH)	NO
ELECTRONIC RECORDER	YES	STRADDLE	NO
CIRCULATING SUB	NO	HOOK WALL	NO
		SAMPLER	NO
34 MILES ROUND TRIP FROM WELLINGTON			
TOP RECORDER DEPTH	2146	BOTTOM RECORDER DEPTH	2145
RECORDER NUMBER	91981	RECORDER NUMBER	5463

WELL INFORMATION

DRILLING CONTRACTOR	VAL DRILLING RIG #5	DRILL COLLAR LENGTH	190
DRILL PIPE LENGTH	1900	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.		
WEIGHT PIPE LENGTH		MUD WEIGHT #/GAL	
WEIGHT PIPE I.D.	2.25	VISCOSITY	
TOOL JOINT SIZE	4 1/2 X.H.	WATER LOSS	
		CHLORIDES-PITS	
		CHLORIDES-DST	

COMMENTS

Temperature / Pressure Data



AVG CORPORATION MILLER #1-A 7-2S-3W DST #4 05-11-2005

Superior Testers Enterprises, Inc.

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

(316) 792-6902

Date 05-11-2005 Location 7-32 S 34 W Elevation 12426L County Sumner 1253 K.B.

Company AGV Corporation Number of Copies 5

Charts Mailed to 123 North Main Attn: Kansas 67009

Drilling Contractor VAL Drilling Rig #3

Length Drill Pipe 2059 I.D. Drill Pipe 3.80 Tool Joint Size 4 1/2" x 11

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

Length Drill Collars 90 I.D. Drill Collars 2.25 Tool Joint Size 4 1/2" x 11

Top Packer Depth 2170-2175 Bottom Packer Depth 2260 Number of Packers 3 Packer Size 6 3/4"

TESTED FROM 2175 TO 2260 ANCHOR LENGTH 85 TOTAL DEPTH 2321 Hole Size 7 7/8"

EASE & WELL NO. Miller # A-1 FORMATION TESTED Severy Sand TEST NO. 5

Mud Weight 9.2 Viscosity 43 Water Loss 11 1/4 Chlorides - Pits 12000 D.S.T. 147000

Maximum Temp. 98 °F Initial Hydrostatic Pressure (A) 1170 P.S.I. Final Hydrostatic Pressure (H) 1112 P.S.I.

Tool Open I.F.P. from 7:00 am to 7:30 pm 30 min

Tool Closed I.C.I.P. from 7:30 pm to 8:15 pm 45 min

Tool Open F.F.P. from 8:45 pm to 9:15 pm 60 min

Tool Closed F.C.I.P. from 8:45 pm to 10:45 pm 90 min

Initial Blow Straw blow with Gas to Surface in 9 minutes

Final Blow Straw blow see Gas flow Report

Total Feet Recovered 150 Gravity of Oil _____ Corrected

30 Feet of hard Gassy mud %Gas _____ %Oil _____ %Mud _____ %Water _____

120 Feet of Gassy muddy water - CHLORIDES 142000 %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 yes Safety Joint yes Extra Packer yes 3rd Straddle yes Hook Wall NONE

Top Recorder No. 91981 Clock No. Electronic Depth 2256 Cir. Sub NONE Sampler NONE

Bottom Recorder No. 5462 Clock No. 47111 Depth 2252 Insurance NONE

Price of Job _____

Tool Operator Don Rudy

Approved By _____

NO 14759

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.

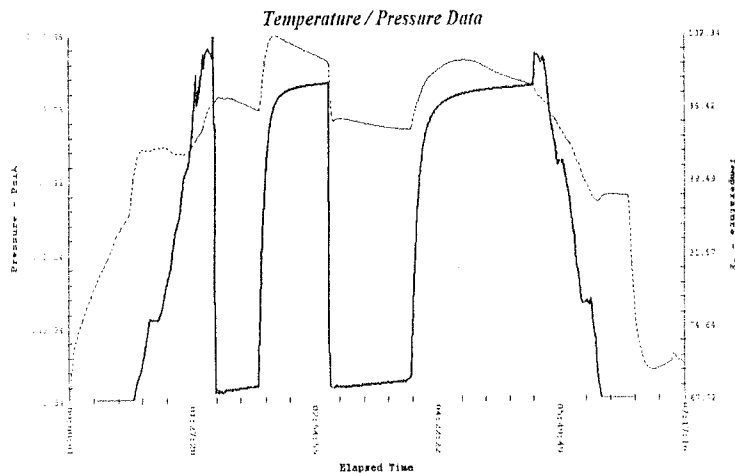
SUPERIOR TESTERS ENTERPRISES INC.

1(800)792-6902

DRILL STEM TEST REPORT

GREAT BEND, KANSAS 67530

Company: AGV CORPORATION
S RGE. 3W
Lease & Well No. MILLER #1-A
Test #: 5
Date: 05-11-2005
SEC. 7 TWP.



1	Initial Hydrostatic Pressure	1170
2	Initial Flow Pressure	41
3	Final Initial Flow Pressure	60
4	Initial Shut-In Pressure	1018
5	Initial Final Flow Pressure	59
6	Final Flow Pressure	75
7	Final Shut-In Pressure	1009
8	Final Hydrostatic Pressure	1112

Maximum Temperature 98

GENERAL INFORMATION

COMPANY NAME AGV CORPORATION
TEST DATE 5/11/05
SECTION-TOWN-RANGE 7-32S-3W
STATE KANSAS
COUNTY SUMNER
ELEVATION GROUND LEVEL 1242
COMPANY REPRESENTATIVE KENT ROBERTS
LEASE AND WELL NUMBER MILLER #1-A
FORMATION TESTED SEVERY SAND
DRILL STEM TEST NUMBER 5
REPORT NUMBER 14759
ELEVATION KELLY BUSHINGS 1253
TESTING ENGINEER GENE BUDIG

TOOL SETTING INFORMATION

TEST INTERVAL (From) 2175
TEST INTERVAL (to) 2260
ANCHOR LENGTH 85
TOTAL DEPTH (ft) 2321
TOP PACKER DEPTH 2170-2175
BOTTOM PACKER DEPTH 2260
NUMBER OF PACKERS 3
PACKER SIZE 6 3/4
HOLE SIZE 7 7/8

FLOW TIMES

TOOL OPEN (from) 7:00
TOOL OPEN (from) 8:15
INITIAL OPEN TOOL OPEN (to) 7:30
TOOL OPEN (to) 9:15
DURATION (min.) 30
DURATION (min.) 60
TOOL CLOSED (from) 7:30
TOOL CLOSED (from) 9:15
INITIAL SHUT-IN TOOL CLOSED (to) 8:15
TOOL CLOSED (to) 10:45
DURATION (min.) 45
DURATION (min.) 90
FINAL OPEN
FINAL SHUT-IN

INITIAL FLOW FAIR BLOW BUILT TO THE BOTTOM OF A 5 GALLON BUCKET IN 1 MINUTE AND
INCREASED TO A STRONG BLOW WITH GAS TO SURFACE IN 9 MINUTES
FINAL FLOW STRONG BLOW-SEE GAS FLOW REPORT

FEET OF	RECOVERY	%	%	%	%
Recovery	DESCRIPTION	GAS	OIL	MUD	WATER
1) 30	GASSY MUD				
2) 120	GASSY MUDDY WATER CHLORIDES 147000				
3)					
4)					
5)					
6)					

SUPERIOR TESTERS ENTERPRISES INC.

DRILL STEM TEST REPORT

GREAT BEND ,KANSAS 67530 (800)792-6902

GENERAL INFORMATION

COMPANY NAME	AGV CORPORATION	LEASE AND WELL NUMBER	MILLER #1-A
TEST DATE	5/11/2005	FORMATION TESTED	SEVERY SAND
SECTION-TOWN-RANGE	7-32S-3W	DRILL STEM TEST NUMBER	5
STATE	KANSAS	REPORT NUMBER	14759
COUNTY	SUMNER	ELEVATION KELLY BUSHINGS	1253
ELEVATION GROUND LEVEL	1242	TESTING ENGINEER	GENE BUDIG
COMPANY REPRESENTATIVE	KENT ROBERTS		

EXTRA EQUIPMENT

JARS	YES	EXTRA PACKER (3RD)	Y
SAFETY JOINT	YES	EXTRA PACKER (4TH)	NO
ELECTRONIC RECORDER	YES	STRADDLE	Y
CIRCULATING SUB	NO	HOOK WALL	NO
		SAMPLER	NO
34 MILES ROUND TRIP FROM WELLINGTON			
TOP RECORDER DEPTH	2256	BOTTOM RECORDER DEPTH	2255
RECORDER NUMBER	91981	RECORDER NUMBER	5463

WELL INFORMATION

DRILLING CONTRACTOR	VAL DRILLING RIG #3	DRILL COLLAR LENGTH	90
DRILL PIPE LENGTH	2059	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.		
WEIGHT PIPE LENGTH		MUD WEIGHT #/GAL	9.2
WEIGHT PIPE I.D.	2.25	VISCOSITY	43
TOOL JOINT SIZE	4 1/2 X.H.	WATER LOSS	11.2
		CHLORIDES-PITS	12000
		CHLORIDES-DST	

COMMENTS

(800) 792-6902

#

STATE..... KANSAS

Test Date 1/0/1900

COUNTY..... SUMNER

Sec Town Range 7-32S-3W

FIELD.....

Number 14759

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 OPENED AT	7:10	10	24			1/2	30.700
7:00 WITH GAS	7:15	15	38			1/2	39.600
TO SURFACE IN	7:20	20	54			1/2	46.100
9 MINUTES AT	7:25	25	64			1/2	50.200
7:09	7:30	30	74			1/2	53.900

Final Flow

[illegible]

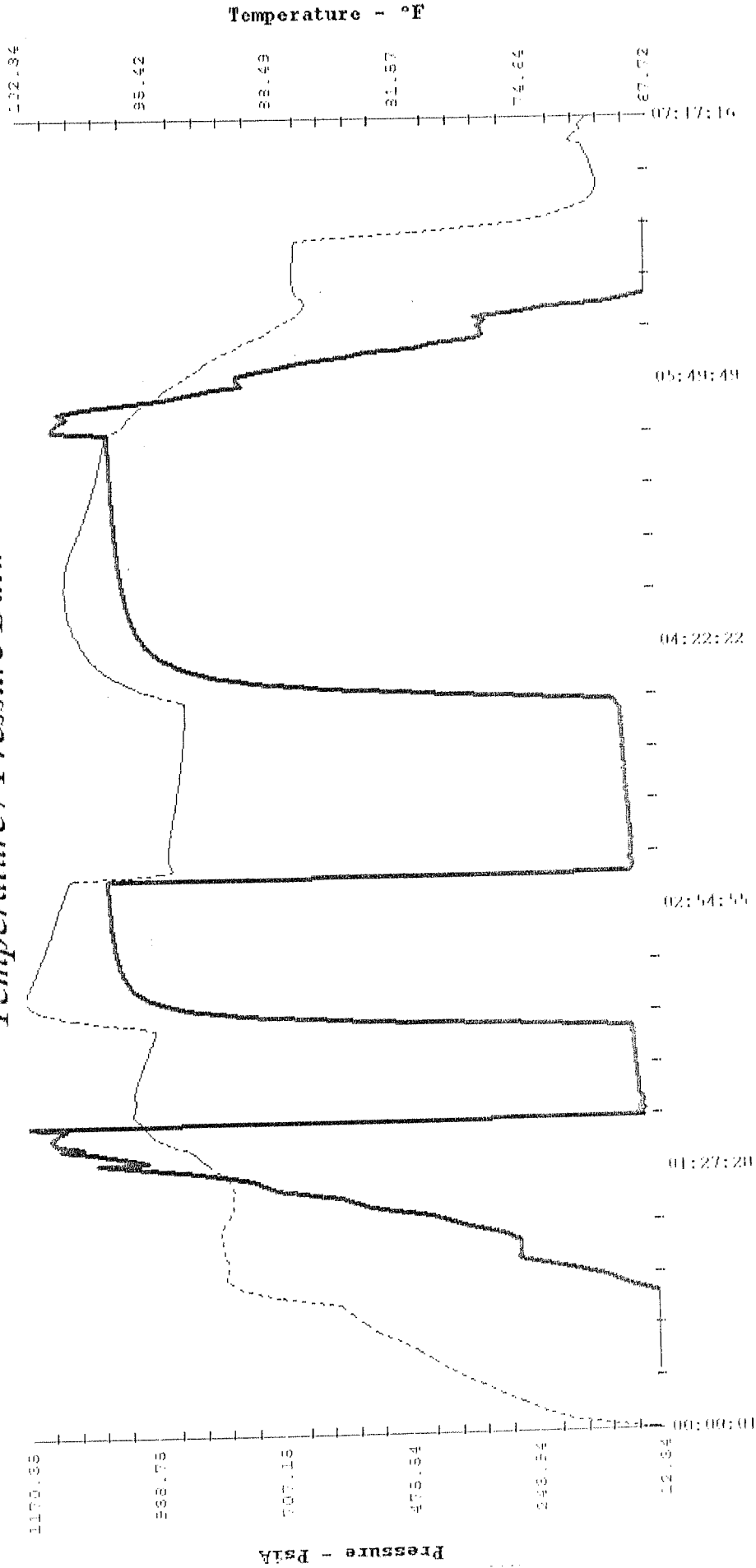
STRADDLE TEST EQUIPMENT DATA

EQUIPMENT DATA
STRADDLE TEST WITH 3 PACKERS

	O.D.	I.D.	LENGTH	DEPTH	
DRILL PIPE	4.50	3.83			
WEIGHT PIPE	4.50	2.76			
CIRCULATING SUB	5.50	3.00	1.00		
DRILL COLLARS	6.50	2.25		2059.25	
CHANGE OVER SUB	5.50	3.90	0.75	2149.25	
CHANGE OVER SUB	5.50	3.00	0.75	2150	
SHUT-IN TOOL	3.50	0.87	6.00	2150.75	
BOTTOM HOLE SAMPLER	3.50	0.87	2.00	2156.75	
HYDROLIC TOOL	3.50	0.87	5.00	2158.75	
HYDROLIC TESTING JARC	3.50	1.75	5.00	2163.75	
SAFETY JOINT	3.50	1.75	2.00	2168.75	
TOP PACKER	6.75	1.53	5.00	2170.75	
BOTTOM OF THE BOTTOM TOP	6.75	1.53	2.00	2175.47	TOP PACKER
FLUSH JOINT ANCHOR	5.50	4.50	5.00	2177.47	84.73 FEET OF
RECORDER SUB	5.50	4.50	0.75	2182.47	ANCHOR
CHANGE OVER SUB	5.50	4.50	0.75	2183.22	
DRILL PIPE FOR SPACING	4.50	3.83	62.48	2183.97	TEST INTERVAL
CHANGE OVER SUB	5.50	4.50	0.75	2246.45	2175.47 TO 2260.20
FLUSH JOINT ANCHOR	5.50	4.50	9.00	2247.2	
BLANKED OFF SUB	5.50	4.50	1.00	2256.2	
TOP OF THE BOTTOM PACKER	6.75	1.53	3.00	2257.2	
BOTTOM OF THE BOTTOM PACKER	6.75	1.53	2.00	2260.2	BOTTOM PACKER
ANCHOR FOR SPACING	5.50	4.50	15.00	2262.2	
CHANGE OVER SUB	5.50	4.50	0.75	2277.2	
DRILL PIPE FOR SPACING	4.50	3.83	31.30	2277.95	TAIL PIPE
CHANGE OVER SUB	5.50	4.50	0.75	2309.25	60.80 FEET
ANCHOR FOR SPACING	5.50	4.50	8.00	2310	
BULL PLUG	5.50	4.50	3.00	2318	
TOTAL DEPTH				2321	T.D 2321

REMARKS

Temperature / Pressure Data



AVG CORPORATION DST #5 MILLER #1-A 7-2S-3W 05-11-2005

SUPERIOR TESTERS ENTERPRISES INC.

GREAT BEND, KANSAS

SUPERPOSITION ANALYSIS

800) 792-6902

1ST SHUT-IN

State KANSAS

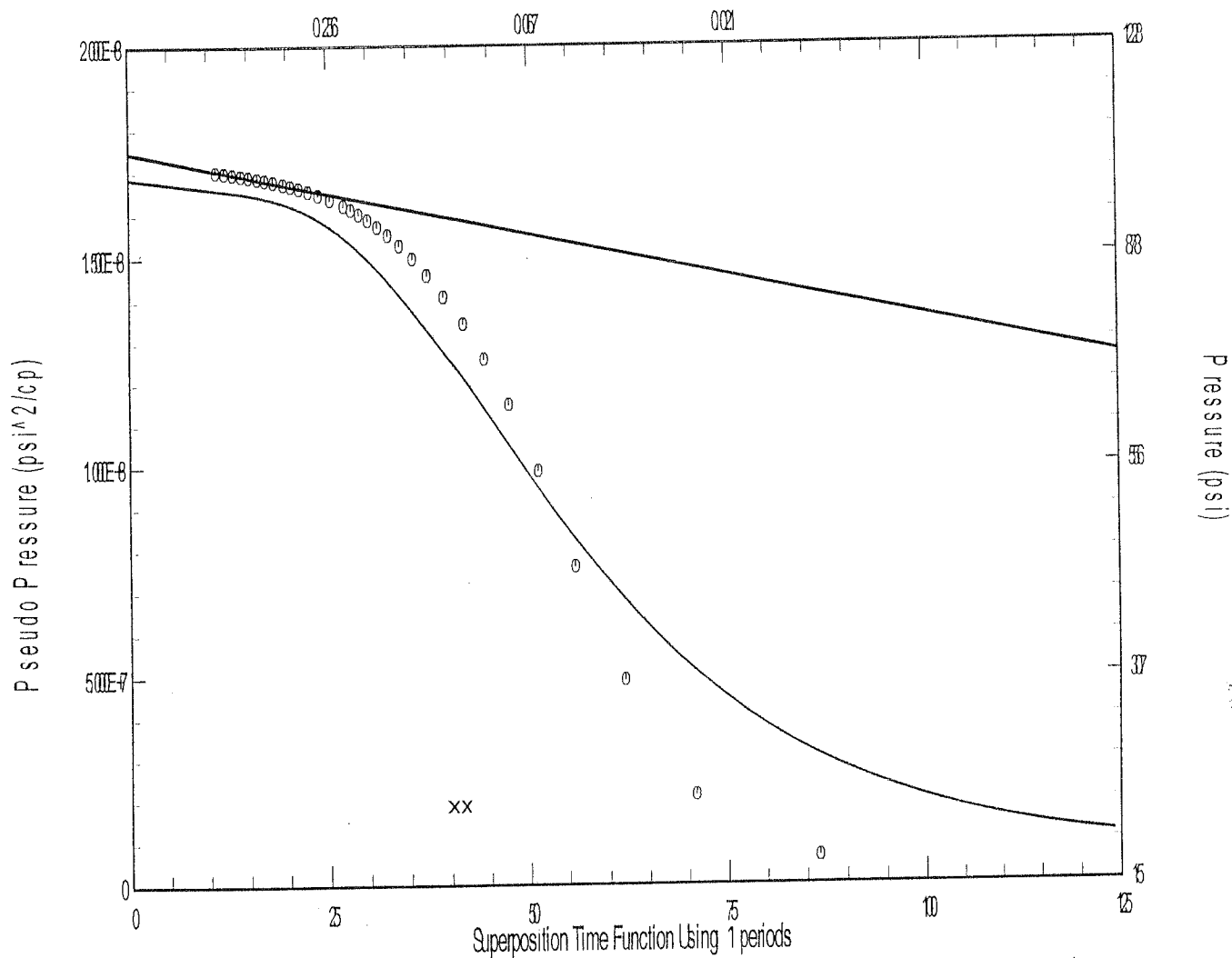
Test Date

County SUMNER

Sec Town Range 7-32S-3W

Field

Report Number 14759



MODEL RESULTS

Constant Storage
C1 : 4.00×10^{-4} bbl/psi

Skin Model
Skin : 12.5

Homogeneous
k : 0.38 md
Est Pi : 100.7 psi

No Boundaries

h : 10 ft
mu : 0.015 cp
phi : 18.0%
d : 6.00×10^{-4} ft
rw : 3.28 ft
BHT : 98 F
FVF : 1.91

SUPERIOR TESTERS ENTERPRISES INC.

GREAT BEND, KANSAS

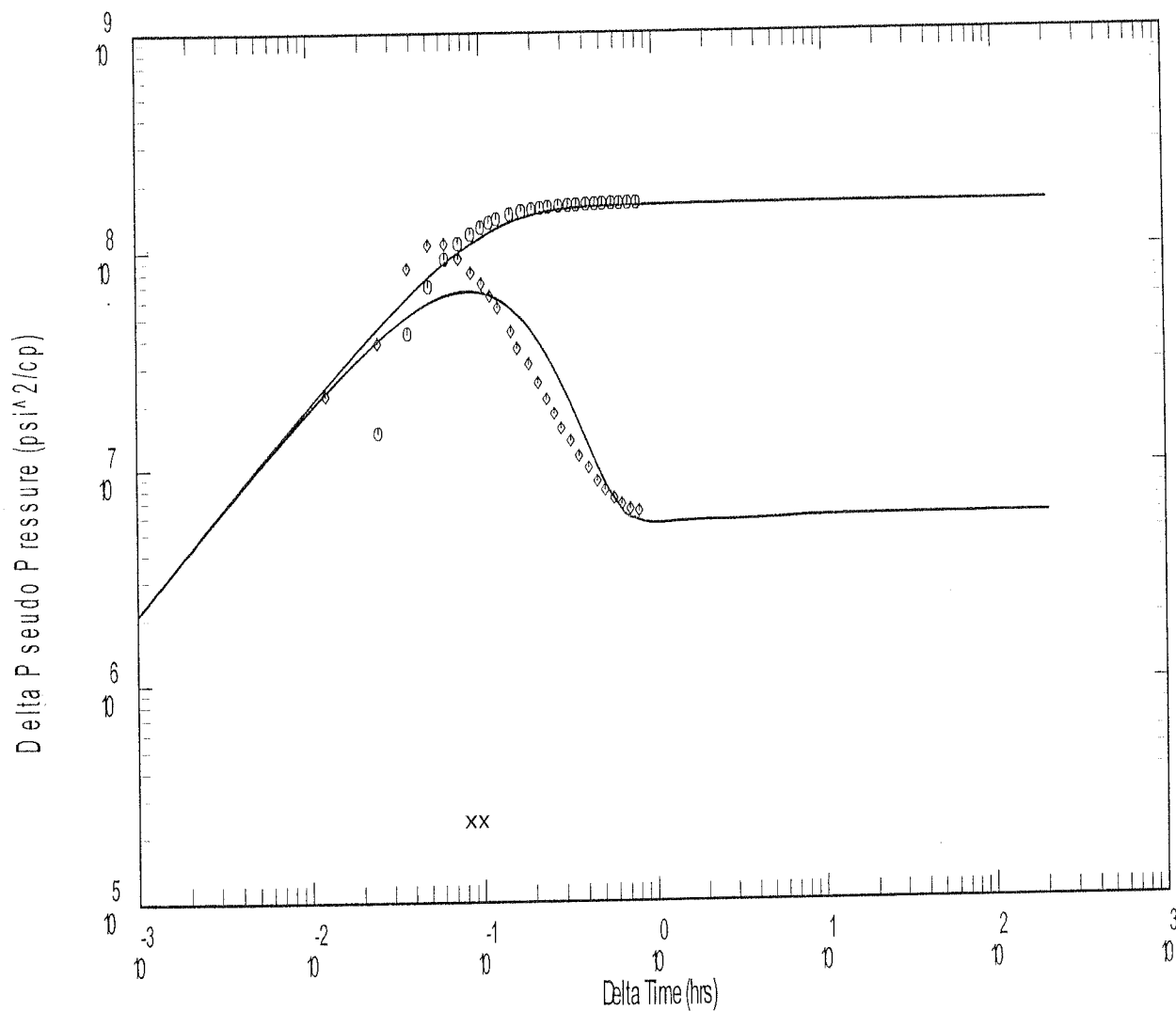
LOG-LOG ANALYSIS

(800) 792-6902

1ST SHUT-IN

State KANSAS
County SUMNER
Field

Test Date
Sec Town Range 7-32S-3W
Report Number 14759



MODEL RESULTS

Constant Storage
C1 : 4.00E-4 bbl/psi

Skin Mod
Skin : 12.25

Homogeneous
k : 0.38 md
Est Pi : 1003.7 psi

No Barriers

h : 10 ft
mu : 0.015 cp
pi : 18.0%
a : 6.88E-04 1/psi
rw : 3.20 ft
BHT : 98 F
FVF : 1.91

Field :
County or Parish :
State :

Date Printed: 05/14/05 11:24:19
Analysis Period : 1st shut-in
Comment : Line #

Superposition Slope -> m' -3.886257E+5
Horner Slope -> m -2.094692E+7
Intercept 1.748E+8
P(dt=1 hr) 1.711E+8
Pwf 6.427E+6
R Sqr 0.9790

Intercept (psi) 1049.315
k (md) 0.23505
kh (md-ft) 2.35045
k/u (md/cp) 15.88143
kh/uB (md-ft/cp) 158.81433
Skin 8.0500
DP Skin 839.6030
Total DP 989.8787
Percent DP 84.82%

Radius Invest (ft) 11
Radius Time (hrs) 0.84

Delta Q = 54
h (ft)= 10
mu (cp) = 0.0148
B (stb/scf) = 1.9370

First Point # 22
Second Point # 67
Start Real Time 0.262
End Real Time 0.825
Start SF Time 24.705

SUPERIOR TESTERS ENTERPRISES INC.

GREAT BEND, KANSAS

SUPERPOSITION ANALYSIS

(800) 792-6902

2ND SHUT-IN

State KANSAS

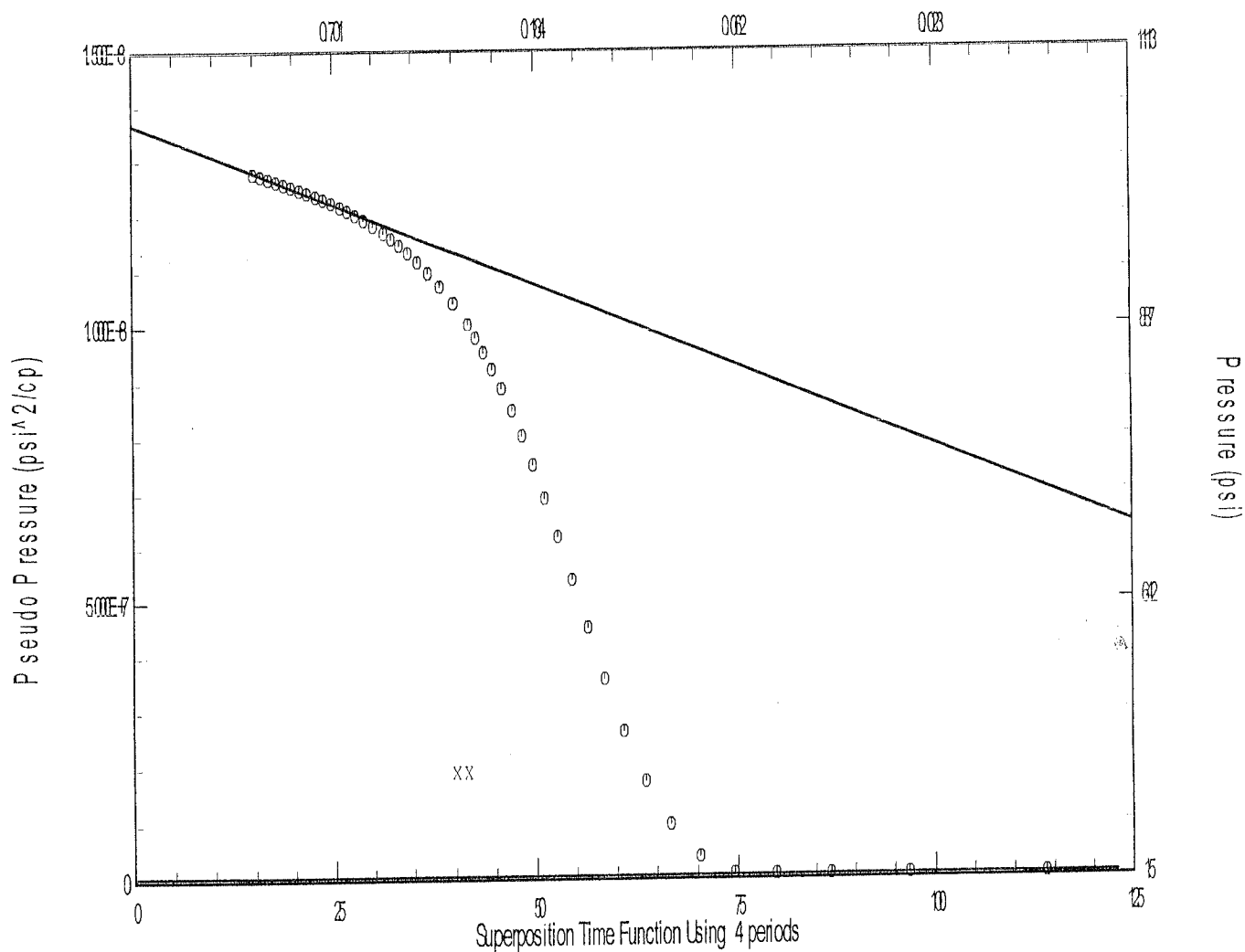
Test Date

County SUMNER

Sec Town Range 7-32S-3W

Field

Report Number 14759



MODEL RESULTS

Constant Storage
C1 : 0.00344/psi

Skin Model
Skin : -6.18

Homogeneous
k : 0.189 md
Est Pi: 816 psi

No Boundaries

h : 10 ft
mu : 0.012 cp
pi : 1800 psi
α : 6.93E-04 1/psi
rw : 3.23 ft
BHT : 98 F
FVF : 0.61

SUPERIOR TESTERS ENTERPRISES INC.

GREAT BEND ,KANS

LOG-LOG ANALYSIS

(800) 792-6902

2ND SHUT-IN

State KANSAS

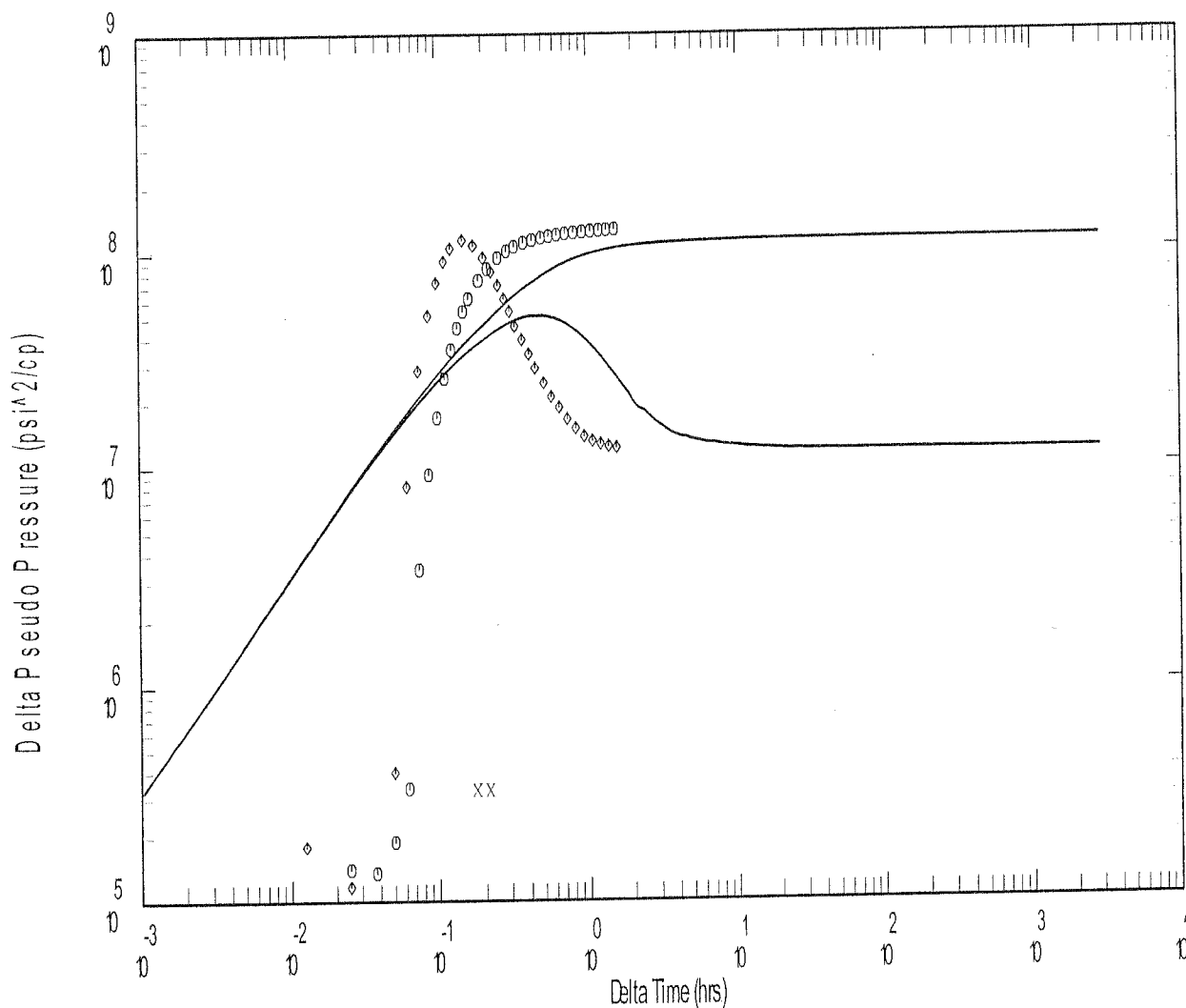
Test Date

County SUMNER

Sec Town Range 7-32S-3W

Field

Report Number 14759



MODEL RESULTS

Constant Storage
C1 : 0.00344/psi

Skin Model
Skin : 4.17

Homogeneous
k : 0.155 md
Est Pi : 901.1 psi

No Barriers

h : 10 ft
mu : 0.012 cp
phi : 18.0%
d : 6.93E-04 ft
rw : 3.28 ft
BHT : 98 F
FVF : 3.43

Field :
County or Parish :
State :

Date Printed: 05/14/05 12:45:17
Analysis Period : 2nd shut-in
Comment : Line #

Superposition Slope -> m' -5.832720E+5
Horner Slope -> m -3.388810E+7
Intercept 1.368E+8
P(dt=1 hr) 1.251E+8
Pwf 5.822E+5
R Sqr 0.9929

Intercept (psi) 1050.576
k (md) 0.15661
kh (md-ft) 1.56607
k/u (md/cp) 13.61802
kh/uB (md-ft/cp) 136.18018
Skin -5.1495
DP Skin -1062.7894
Total DP 989.2993
Percent DP -107.43%

Radius Invest (ft) 13
Radius Time (hrs) 1.54

Delta Q = 58
h (ft)= 10
mu (cp) = 0.0115
B (stb/scf) = 3.4290

First Point # 43
Second Point # 123
Start Real Time 0.525
End Real Time 1.538
Start SF Time 29.753

PVT Detail

INPUT DATA

Pressure of Interest (psia).....	1009.00
Temperature of Interest (F).....	98.00
Condensate Yield (bbl/mmscf).....	160.00
Water Cut (%).....	0.00%
Standard Pressure (psia).....	14.7000
Standard Temperature (F).....	60.0000
API Gravity Liq Hydrocarbon.....	35.0000
Water Salinity (ppm).....	10000.0000
Solution GOR & Pb Correlation.....	STANDING
Formation Volume Factor Correlation.....	STANDING
Dead Oil Correlation.....	BEGGS-ROBINSON
Dead Water Correlation.....	MEEHAN
Reservoir Fluid Type.....	GAS
Reservoir Oil Saturation (%).....	0.00%
Reservoir H2O Saturation (%).....	40.00%
Reservoir Gas Saturation (%).....	60.00%
Reservoir Rock Type.....	SANDSTONE
Reservoir Rock Porosity (%).....	18.00%
True Vertical Depth (ft).....	2260
CO2 (Mole %).....	0.000E+00
H2S (Mole %).....	0.000E+00
N2 (Mole %).....	0.000E+00
Specific Gravity Gas (dim).....	0.6500
Pseudo Critical Temp (R).....	370.0000
Pseudo Critical Press (psia).....	671.0000

CALCULATED VALUES

Ct Reservoir (1/psi).....	6.902E-04
Cf Wellbore (1/psi).....	1.301E-03
Total Fluid Visc (cp).....	0.0287
Total FVF (bbl/stb).....	4.984E-03
Total Fluid Bubble Point Press (psi).....	0.3188
Fluid Density (lbs/r-ft3).....	17.5603
Total Fluid SG (dim).....	1.1468
Compress. H2O (1/psi).....	1.625E-05
Compress. Gas (1/psi).....	1.132E-03
Compress. Rock (1/psi).....	4.699E-06
Critical Temp (R).....	522.9400
Critical Press (psia).....	642.2687
Oil Vol Frac of Total Fluid (frac).....	0.000E+00
Water Vol Frac of Total Fluid (frac).....	0.000E+00

Superior Testers Enterprises, Inc.

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

(316) 792-6902

Date 05-12-05 Location 7-225-3rd Elevation 1253 RB 1242.68 County Sumner

Company AGU Corporation Number of Copies 5

Charts Mailed to 123 North Main Attica Kansas 67009

Drilling Contractor VAL Drilling Rig #2

Length Drill Pipe 2351 I.D. Drill Pipe 3.80 Tool Joint Size 4 1/2" X 4"

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

Length Drill Collars 90 I.D. Drill Collars 2.25 Tool Joint Size 4 1/2" X 4"

Top Packer Depth 2462 Bottom Packer Depth 2467 Number of Packers 2 Packer Size 6 3/4"

TESTED FROM 2467 TO 2510 ANCHOR LENGTH 43 TOTAL DEPTH 2510 Hole Size 7 1/8"

EASE & WELL NO. Miller #1-A FORMATION TESTED EL GEN Sand TEST NO. 6

Mud Weight 95 Viscosity 39 Water Loss 10 Chlorides - Pits 20000 D.S.T. _____

Maximum Temp. 990 °F Initial Hydrostatic Pressure (A) 1321.334 P.S.I. Final Hydrostatic Pressure (H) 1312 P.S.I.

Tool Open I.F.P. from 4:10 p.m. to 3:15 p.m. 05 min

Tool Closed I.C.I.P. from 3:15 p.m. to 4:00 p.m. 45 min

Tool Open F.F.P. from 4:00 p.m. to 4:30 p.m. 30 min

Tool Closed F.C.I.P. from 4:30 p.m. to 6:00 p.m. 90 min

Initial Blow Straw 6 blow - Gas to Surface in 1 minute

Final Blow Straw 6 blow - SEE Gas Flow Report

Total Feet Recovered 120 Gravity of Oil _____ Corrected

120 Feet of Gas cut 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 _____

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 yes Safety Joint yes Extra Packer none Straddle none Hook Wall none

Top Recorder No. 91981 Clock No. Electron Depth 2506 Cir. Sub none Sampler none

Bottom Recorder No. 5413 Clock No. 47441 Depth 2507 Insurance none

Price of Job _____

Tool Operator Gene Rudy

Approved By _____

NO 14760

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.

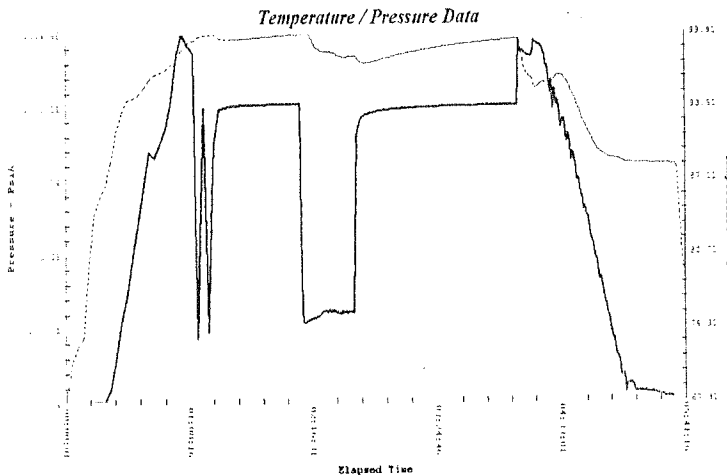
SUPERIOR TESTERS ENTERPRISES INC.

DRILL STEM TEST REPORT

1(800)792-6902

GREAT BEND, KANSAS 67530

Company: AGV CORPORATION
S RGE. 3W
Lease & Well No. MILLER #1-A
Test #: 6
Date: 05-13-2005
SEC. 7 TWP.



- | | | |
|---|------------------------------|------|
| 1 | Initial Hydrostatic Pressure | 1334 |
| 2 | Initial Flow Pressure | 239 |
| 3 | Final Initial Flow Pressure | 264 |
| 4 | Initial Shut-In Pressure | 1084 |
| 5 | Initial Final Flow Pressure | 303 |
| 6 | Final Flow Pressure | 335 |
| 7 | Final Shut-In Pressure | 1078 |
| 8 | Final Hydrostatic Pressure | 1312 |

Maximum Temperature 99

GENERAL INFORMATION

COMPANY NAME AGV CORPORATION

TEST DATE 5/12/05

SECTION-TOWN-RANGE 7-32S-3W

STATE KANSAS

COUNTY SUMNER

ELEVATION GROUND LEVEL 1242

COMPANY REPRESENTATIVE KENT ROBERTS

LEASE AND WELL NUMBER MILLER #1-A

FORMATION TESTED ELGIN SAND

DRILL STEM TEST NUMBER 6

REPORT NUMBER 14760

ELEVATION KELLY BUSHINGS 1253

TESTING ENGINEER GENE BUDIG

TOOL SETTING INFORMATION

TEST INTERVAL (From) 2467

TEST INTERVAL (to) 2510

ANCHOR LENGTH 43

TOTAL DEPTH (ft) 2510

TOP PACKER DEPTH 2462

BOTTOM PACKER DEPTH 2467

NUMBER OF PACKERS 2

PACKER SIZE 6 3/4

HOLE SIZE 7 7/8

FLOW TIMES

TOOL OPEN (from) 3:10

INITIAL OPEN TOOL OPEN (to) 3:15

DURATION (min.) 5

TOOL OPEN (from) 4:00

TOOL OPEN (to) 4:30

DURATION (min.) 30

TOOL CLOSED (from) 3:15

INITIAL SHUT-IN TOOL CLOSED (to) 4:00

DURATION (min.) 45

TOOL CLOSED (from) 4:30

TOOL CLOSED (to) 6:00

DURATION (min.) 90

INITIAL FLOW

STRONG BLOW WITH GAS TO SURFACE IN 1 MINUTE

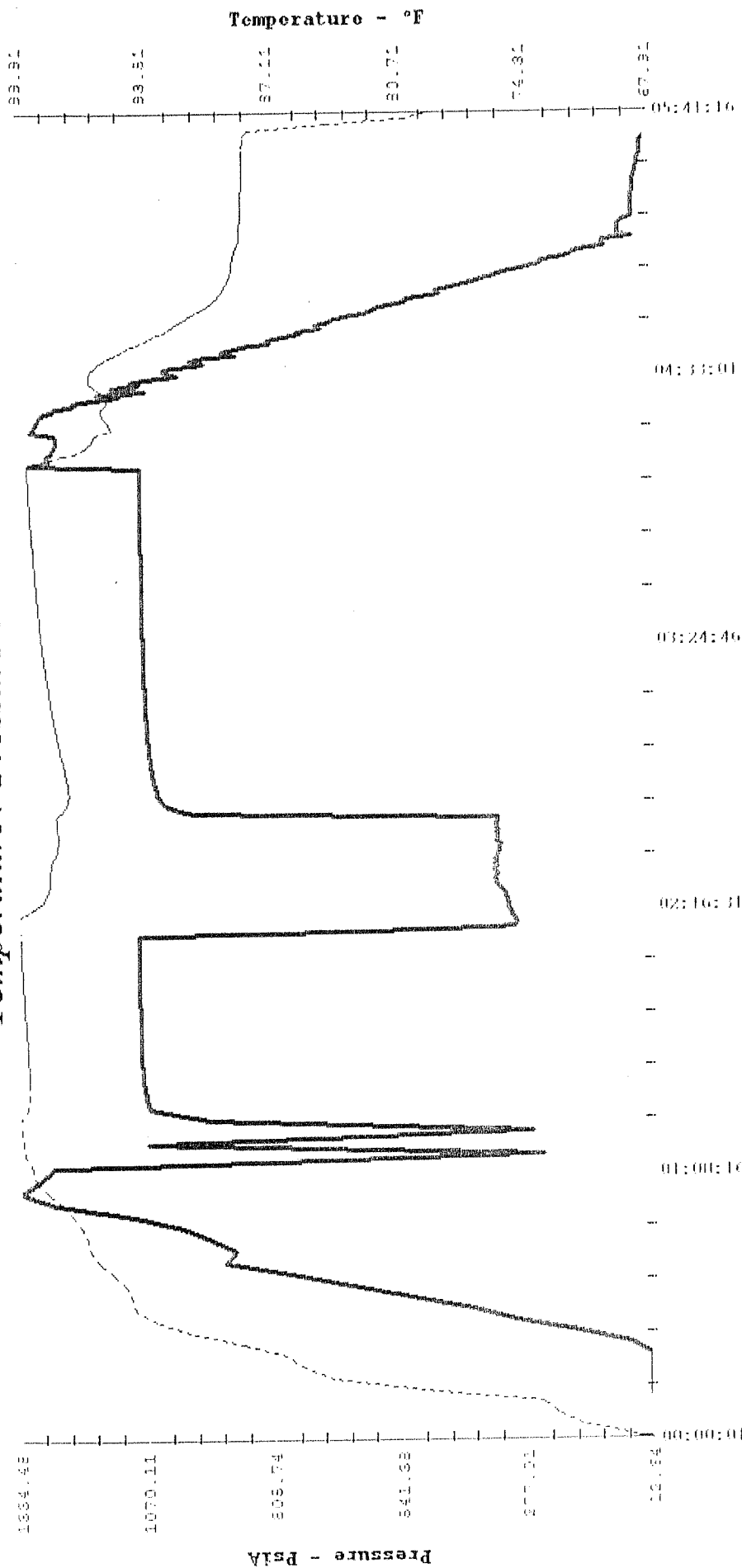
FINAL FLOW

STRONG BLOW SEE GAS FLOW REPORT

FEET OF	RECOVERY	%	%	%	%
Recovery	DESCRIPTION	GAS	OIL	MUD	WATER
1) 120	GAS CUT DRILLING MUD				
2)					
3)					
4)					
5)					
6)					

GREAT BEND, KANSAS 67530 (800)792-6902

Temperature / Pressure Data



AVG CORPORATION DST #6 MILLER #1-A 7-2S-3W 05-12-2005

SUPERIOR TESTERS ENTERPRISES INC.

GREAT BEND, KANSAS

SUPERPOSITION ANALYSIS

800) 792-6902

1ST SHUT-IN

State KANSAS

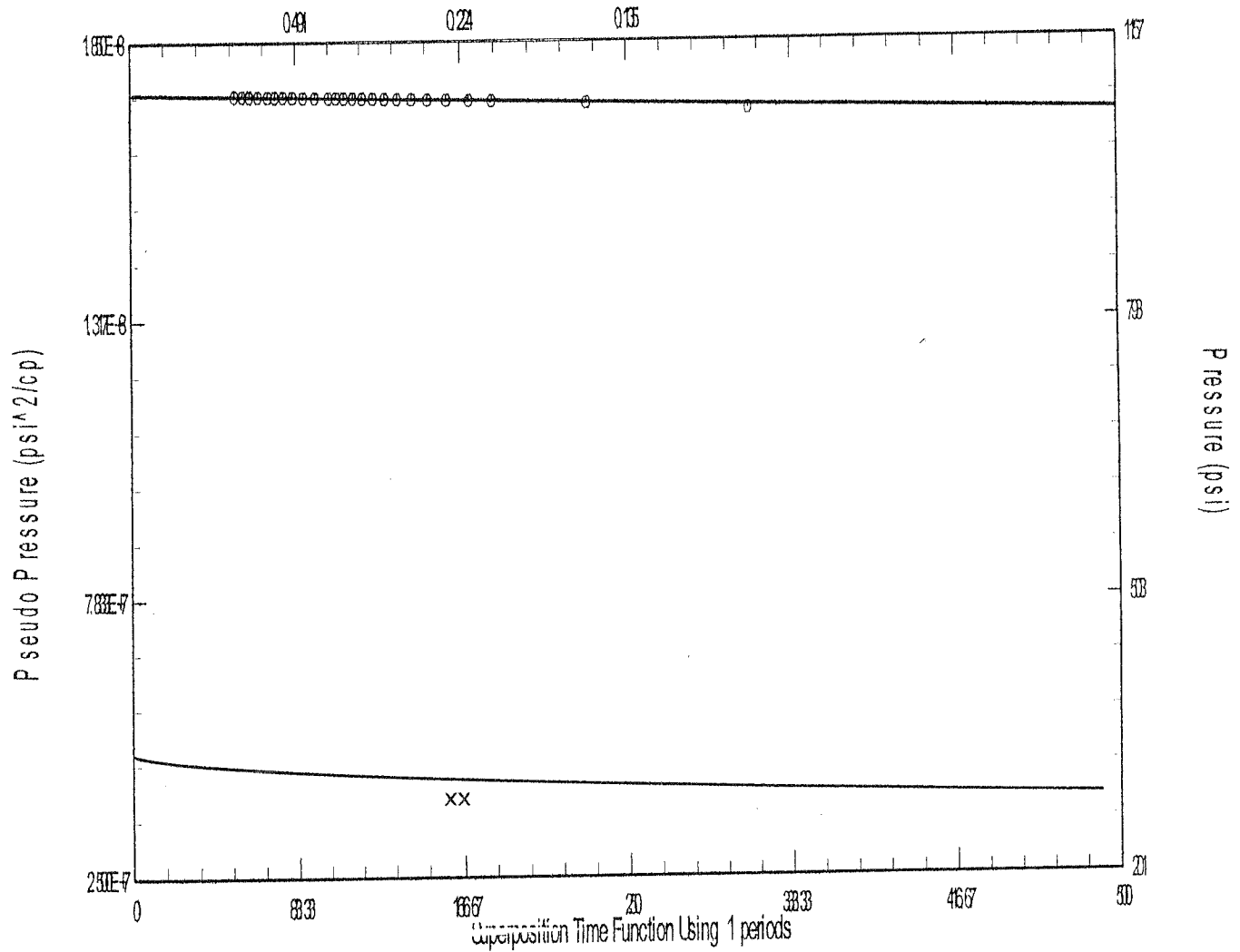
Test Date

County SUMNER

Sec Town Range 7-32S-3W

Field

Report Number 14760



MODEL RESULTS

Constant Storage
C1 : 0.09 u/psi

Skin Effect
SWin : -2.46

Homogeneous
k : 0.24 md
Est Pi: 35.9 psi

No Barriers

h : 10 ft
mu : 0.015 cp
pi : 18.0%
a : 6.45E-04 1/psi
rw : 3.20 ft
BHT : 99 F
FVF : 1.94

Field :
County or Parish :
State :

Date Printed: 05/13/05 10:47:36
Analysis Period : 1st shut-in
Comment : Line #

Superposition Slope -> m' -8301.607000
Horner Slope -> m -8.600465E+6
Intercept 1.751E+8
P(dt=1 hr) 1.747E+8
Pwf 3.369E+7
R Sqr 0.9997

Intercept (psi) 1086.433
k (md) 11.02296
kh (md-ft) 110.22962
k/u (md/cp) 734.86412
kh/uB (md-ft/cp) 7348.64124
Skin 15.9231
DP Skin 668.0045
Total DP 822.0837
Percent DP 81.26%

Radius Invest (ft) 75
Radius Time (hrs) 0.85

Delta Q = 1036
h (ft)= 10
mu (cp) = 0.0150
B (stb/scf) = 1.9410

First Point # 7
Second Point # 44
Start Real Time 0.250
End Real Time 0.825
Start SF Time 151.399

SUPERIOR TESTERS ENTERPRISES INC.

GREAT BEND, KANSAS

SUPERPOSITION ANALYSIS

(800) 792-6902

2ND SHUT-IN

State KANSAS

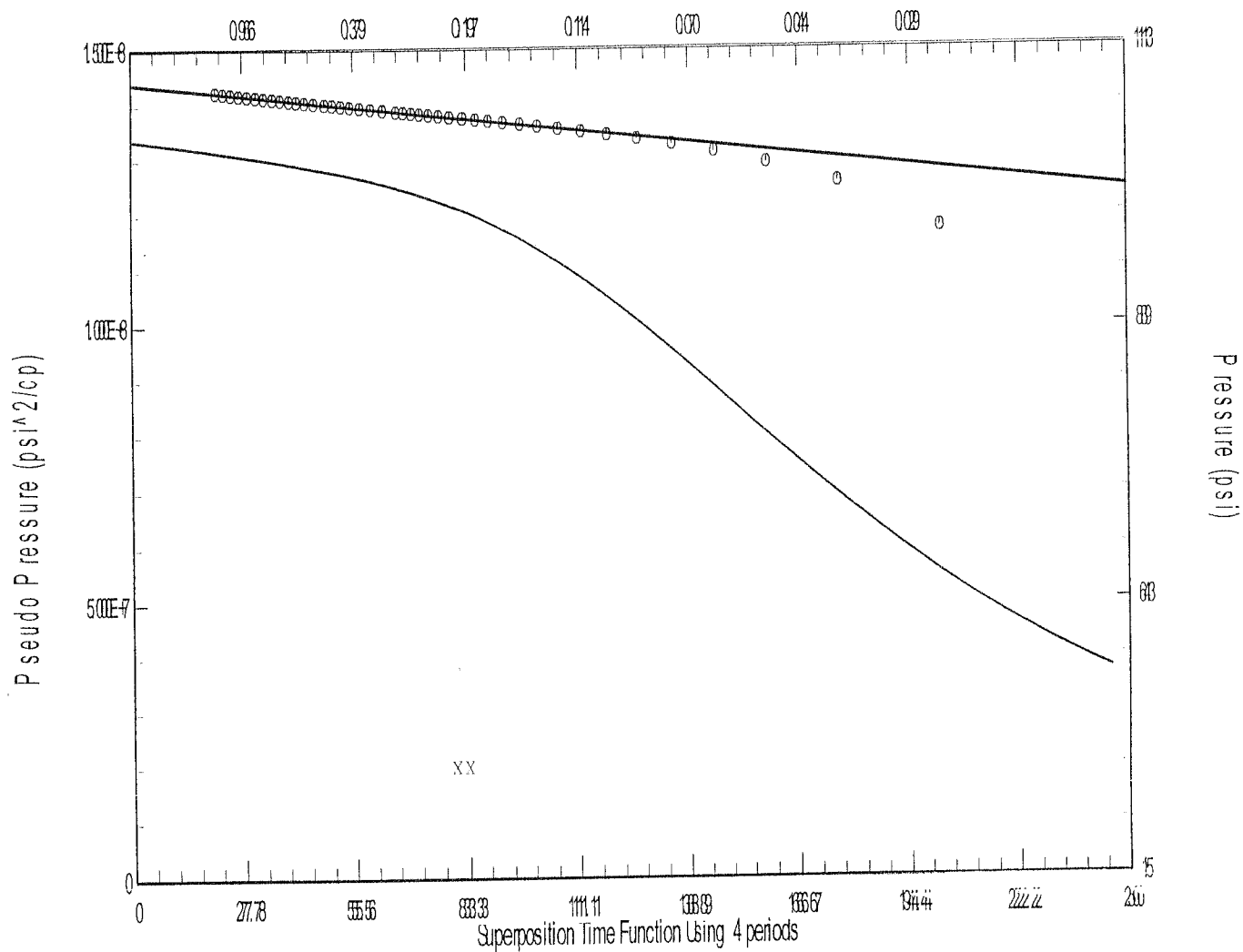
Test Date

County SUMNER

Sec Town Range 7-32S-3W

Field

Report Number 14760



MODEL RESULTS

Constant Storage
C1 : 0.012 mD/psi

Skin Mod
Skin : 6.51

Homogeneous
k : 9.40 md
Est PI: 137.5 psi

No Boundaries

h : 40 ft
mu : 0.03 cp
pi : 18.0%
c : 6.43×10^{-4} 1/psi
rw : 3.28 ft
BHT : 99 F
FVF : 2.7

Field :
County or Parish :
State :

Date Printed: 05/13/05 10:51:38
Analysis Period : 2nd shut-in
Comment : Line #

Superposition Slope -> m' -7826.156000
Horner Slope -> m -1.220098E+7
Intercept 1.439E+8
P(dt=1 hr) 1.418E+8
Pwf 1.271E+7
R Sqr 0.9993

Intercept (psi) 1084.483
k (md) 11.69262
kh (md-ft) 116.92624
k/u (md/cp) 879.14471
kh/uB (md-ft/cp) 8791.44709
Skin 9.1430
DP Skin 595.7105
Total DP 749.1537
Percent DP 79.52%

Radius Invest (ft) 108
Radius Time (hrs) 1.50

Delta Q = 1559
h (ft)= 10
mu (cp) = 0.0133
B (stb/scf) = 2.2670

First Point # 19
Second Point # 111
Start Real Time 0.237
End Real Time 1.387
Start SF Time 747.172

PVT Detail

INPUT DATA

Pressure of Interest (psia).....	1078.00
Temperature of Interest (F).....	99.00
Condensate Yield (bbl/mmscf).....	160.00
Water Cut (%).....	0.00%
Standard Pressure (psia).....	14.7000
Standard Temperature (F).....	60.0000
API Gravity Liq Hydrocarbon.....	35.0000
Water Salinity (ppm).....	10000.0000
Solution GOR & Pb Correlation.....	STANDING
Formation Volume Factor Correlation.....	STANDING
Dead Oil Correlation.....	BEGGS-ROBINSON
Dead Water Correlation.....	MEEHAN
Reservoir Fluid Type.....	GAS
Reservoir Oil Saturation (%).....	0.00%
Reservoir H2O Saturation (%).....	40.00%
Reservoir Gas Saturation (%).....	60.00%
Reservoir Rock Type.....	SANDSTONE
Reservoir Rock Porosity (%).....	18.00%
True Vertical Depth (ft).....	2510
CO2 (Mole %).....	0.000E+00
H2S (Mole %).....	0.000E+00
N2 (Mole %).....	0.000E+00
Specific Gravity Gas (dim).....	0.6500
Pseudo Critical Temp (R).....	370.0000
Pseudo Critical Press (psia).....	671.0000

CALCULATED VALUES

Ct Reservoir (1/psi).....	6.483E-04
Cf Wellbore (1/psi).....	8.498E-04
Total Fluid Visc (cp).....	0.0313
Total FVF (bbl/stb).....	4.701E-03
Total Fluid Bubble Point Press (psi).....	0.3207
Fluid Density (lbs/r-ft3).....	18.6204
Total Fluid SG (dim).....	1.1468
Compress. H2O (1/psi).....	1.473E-05
Compress. Gas (1/psi).....	1.064E-03
Compress. Rock (1/psi).....	4.287E-06
Critical Temp (R).....	522.9400
Critical Press (psia).....	642.2687
Oil Vol Frac of Total Fluid (frac).....	0.000E+00
Water Vol Frac of Total Fluid (frac).....	0.000E+00

Superior Testers Enterprises, Inc.

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

(316) 792-6902

Date 05-13-2005 Location 7-3253W Elevation 1253 KB County Sumner

Company AGU Corporation Number of Copies 5

Charts Mailed to 123 North Main, Ottawa Kansas 67009

Drilling Contractor VAL Drilling Rig #3

Length Drill Pipe 2559 I.D. Drill Pipe 380 Tool Joint Size 8 1/2" X H

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

Length Drill Collars 90 I.D. Drill Collars 2.85 Tool Joint Size 4 1/2" X H

Top Packer Depth 2670 Bottom Packer Depth 2675 Number of Packers 2 Packer Size 6 3/4"

TESTED FROM 2675 TO 2695 ANCHOR LENGTH 20 TOTAL DEPTH 2695 Hole Size 7 1/8"

LEASE & WELL NO. Miller #1-A FORMATION TESTED Toronto TEST NO. 7

Mud Weight 95 Viscosity 46 Water Loss 10% Chlorides - Pits 20000 D.S.T. _____

Maximum Temp. 103 °F Initial Hydrostatic Pressure (A) 1411 P.S.I. Final Hydrostatic Pressure (H) 1407 P.S.I.

Tool Open I.F.P. from 11:00 am to 11:30 am 30 min

Tool Closed I.C.I.P. from 11:30 am to 12:15 pm 45 min

Tool Open F.F.P. from 12:15 pm to 12:45 pm 30 min

Tool Closed F.C.I.P. from 12:45 pm to 1:30 pm 45 min

Initial Blow Strong blow with Gas to Surface in 25 minutes

Final Blow Strong blow SEE Gas Flow Report

Total Feet Recovered 150 Gravity of Oil _____ Corrected _____

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

75 Feet of Gas maddy water - CHLORIDE 161000 _____ % 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 yes Safety Joint yes Extra Packer none Straddle none Hook Wall none

Top Recorder No. 91981 Clock No. Electron Depth 2691 Cir. Sub none Sampler none

Bottom Recorder No. 5463 Clock No. 47041 Depth 2692 Insurance none

Price of Job _____

Tool Operator Gene Budip

Approved By _____

No 14761

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.

SUPERIOR TESTERS ENTERPRISES INC.

GREAT BEND, KANSAS

GAS FLOW RATE

(800) 792-6902

#

STATE..... KANSAS

Test Date 1/0/1900

COUNTY..... SUMNER

Sec Town Range 7-23S-3W

FIELD.....

Report Number 14761

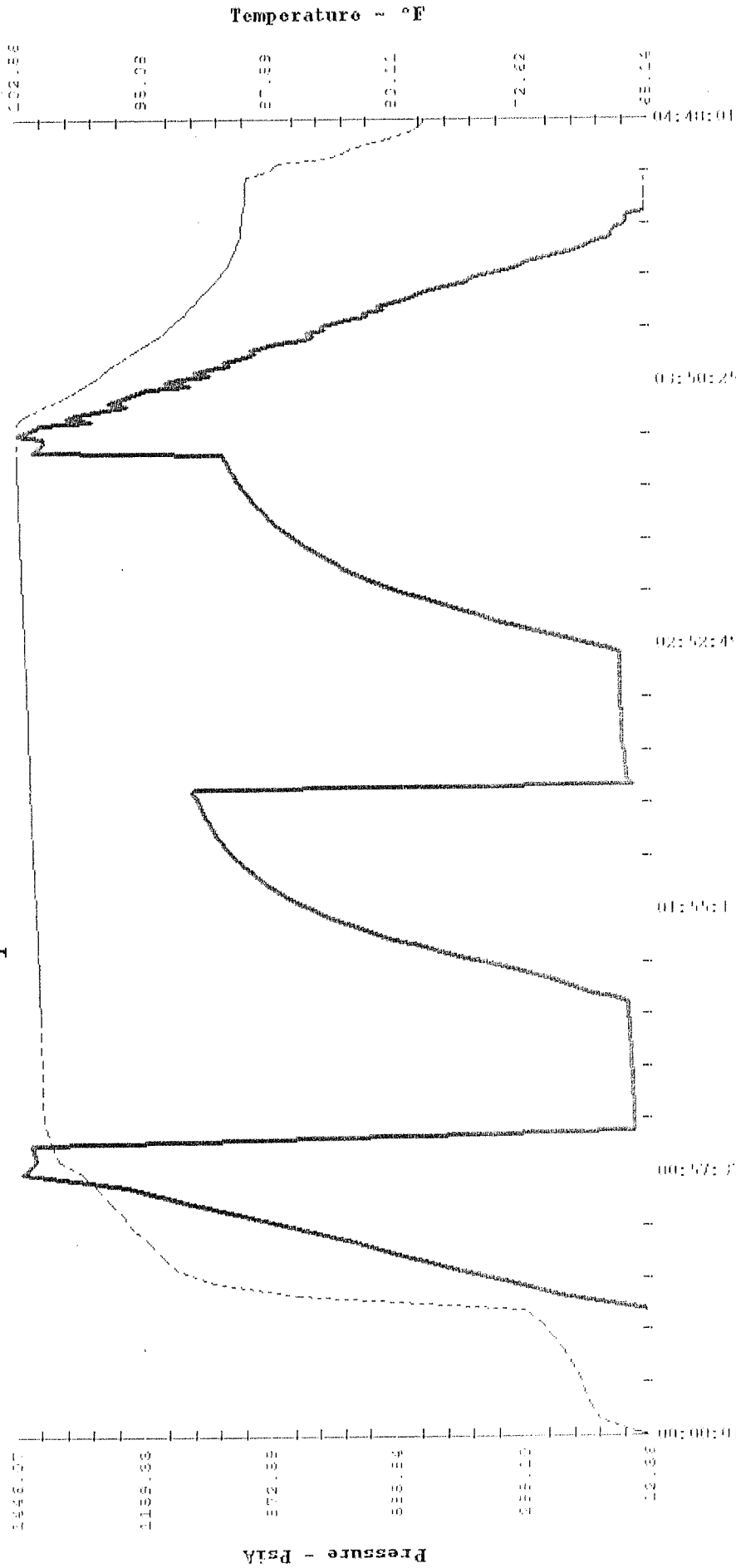
Initial Flow

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 OPENED	11:25	25	22			1/8	2.480
AT 11:00 WITH	11:30	30	42			1/8	3.420
GAS TO SURFACE							
IN 23 MINUTES AT							
11:23							

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 OPENED	12:20	5	6			1/4	4.120
AT 12:15	12:25	10	6			1/4	4.120
	12:30	15	3			1/4	2.920
	12:35	20	15			1/8	2.050
	12:40	25	20			1/8	2.360
	12:45	30	24			1/8	2.590

Temperature / Pressure Data



AGV CORPORATION DST #7 MILLER #1-A 7-2S-3W 05-13-2005

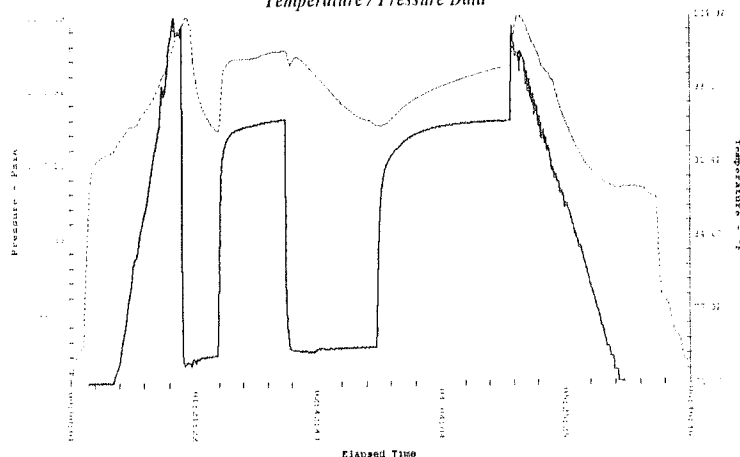
DRILL STEM TEST REPORT

GREAT BEND, KANSAS 67530

Company: AGV CORPORATION
 Lease & Well No. MILLER #1-A
 Test #: 8
 Date: 05-14-2005
 SEC. 7 TWP.

S RGE. 3W

Temperature / Pressure Data



1	Initial Hydrostatic Pressure	1629
2	Initial Flow Pressure	103
3	Final Initial Flow Pressure	150
4	Initial Shut-In Pressure	1207
5	Initial Final Flow Pressure	369
6	Final Flow Pressure	183
7	Final Shut-In Pressure	1197
8	Final Hydrostatic Pressure	1623

Maximum Temperature 104

GENERAL INFORMATION

COMPANY NAME AGV CORPORATION

TEST DATE 5/14/05

SECTION-TOWN-RANGE 7-32S-3W

STATE KANSAS

COUNTY SUMNER

ELEVATION GROUND LEVEL 1242

COMPANY REPRESENTATIVE KENT ROBERTS

LEASE AND WELL NUMBER MILLER #1-A

FORMATION TESTED STALNECKER

DRILL STEM TEST NUMBER 8

REPORT NUMBER 14755

ELEVATION KELLY BUSHINGS 1253

TESTING ENGINEER GENE BUDIG

TOOL SETTING INFORMATION

TEST INTERVAL (From) 2966

TEST INTERVAL (to) 3020

ANCHOR LENGTH 54

TOTAL DEPTH (ft) 3020

TOP PACKER DEPTH 2961

BOTTOM PACKER DEPTH 2966

NUMBER OF PACKERS 2

PACKER SIZE 6 3/4

HOLE SIZE 7 7/8

FLOW TIMES

TOOL OPEN (from) 11:30

INITIAL OPEN TOOL OPEN (to) 12:00

DURATION (min.) 30

TOOL OPEN (from) 12:45

FINAL OPEN TOOL OPEN (to) 1:45

DURATION (min.) 60

TOOL CLOSED (from) 12:00

INITIAL SHUT-IN TOOL CLOSED (to) 12:45

DURATION (min.) 45

TOOL CLOSED (from) 1:45

FINAL SHUT-IN TOOL CLOSED (to) 3:15

DURATION (min.) 90

INITIAL FLOW

STRONG BLOW WITH GAS TO SURFACE IN 1 MINUTE

FINAL FLOW

STRONG BLOW SEE GAS FLOW REPORT

FEET OF	RECOVERY	%	%	%	%
Recovery	DESCRIPTION	GAS	OIL	MUD	WATER
1) 160	GASSY MUD				
2) 90	GASSY MUDDY WATER CHLORIDES 69000				
3)					
4)					
5)					
6)					

GREAT BEND, KANSAS 67530 (800)792-6902

Temperature / Pressure Data



AVG CORPORATION DST #8 MILLER #1-A 7-2S-3W 05-14-2005

SUPERIOR TESTERS ENTERPRISES INC.

GREAT BEND, KANSAS

SUPERPOSITION ANALYSIS

800) 792-6902

1ST SHUT-IN

State KANSAS

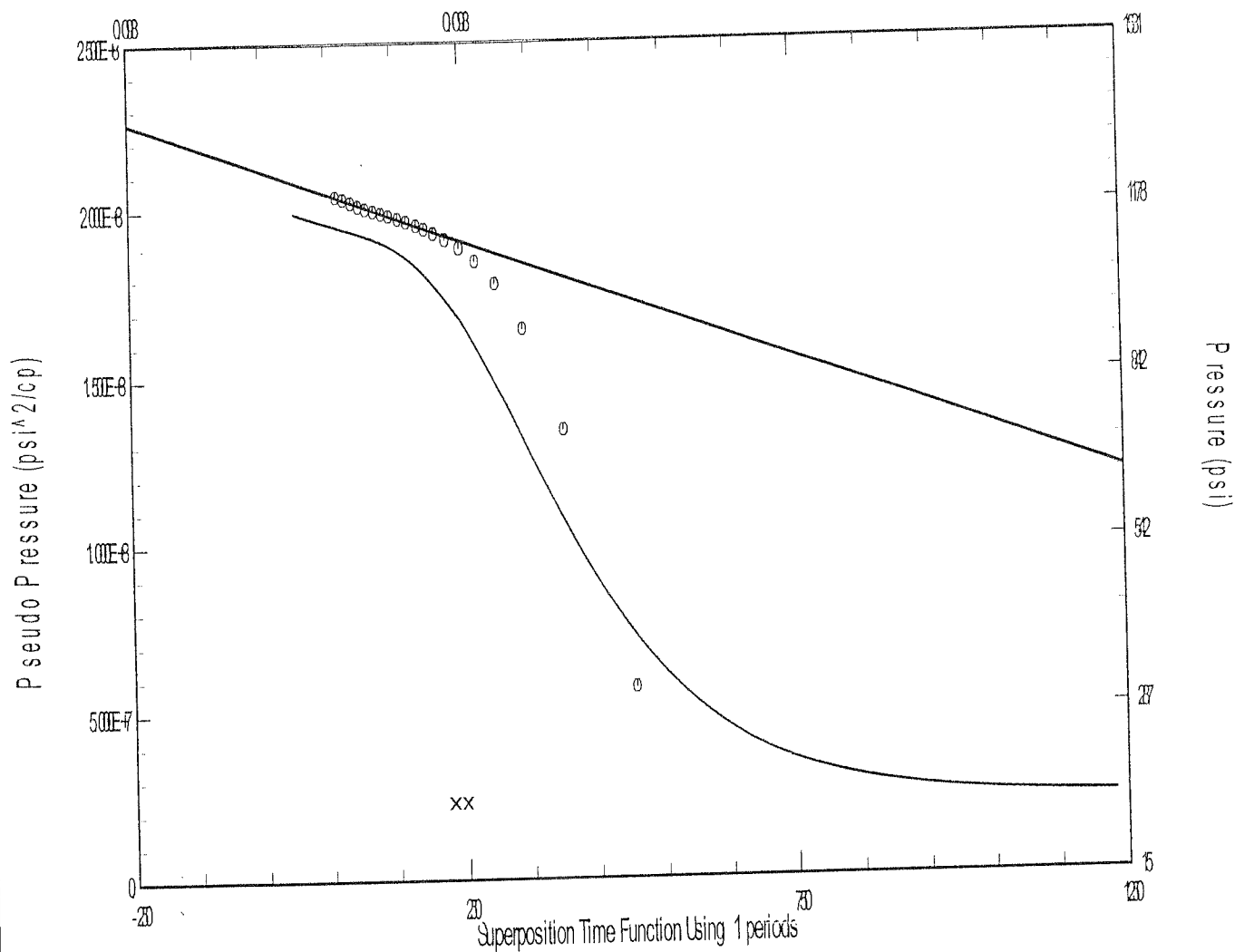
Test Date

County SUMNER

Sec Town Range 7-32S-3W

Field

Report Number 14755



MODEL RESULTS

Constant Storage
C1 : 5.00E-4 bbl/psi

Skin Effect
Skin : 6.76

Homogeneous
k : 1.30 md
Est Pi: 1074.0 psi

No Boundaries

h : 10 ft
mu : 0.08 cp
pi : 98.0%
d : 5.78E-04 ft/psi
rw : 3.28 ft
BHT : 104 F
FVF : 0.75

SUPERIOR TESTERS ENTERPRISES INC.

GREAT BEND, KANSAS

LOG-LOG ANALYSIS

(800) 792-6902

1ST SHUT-IN

State KANSAS

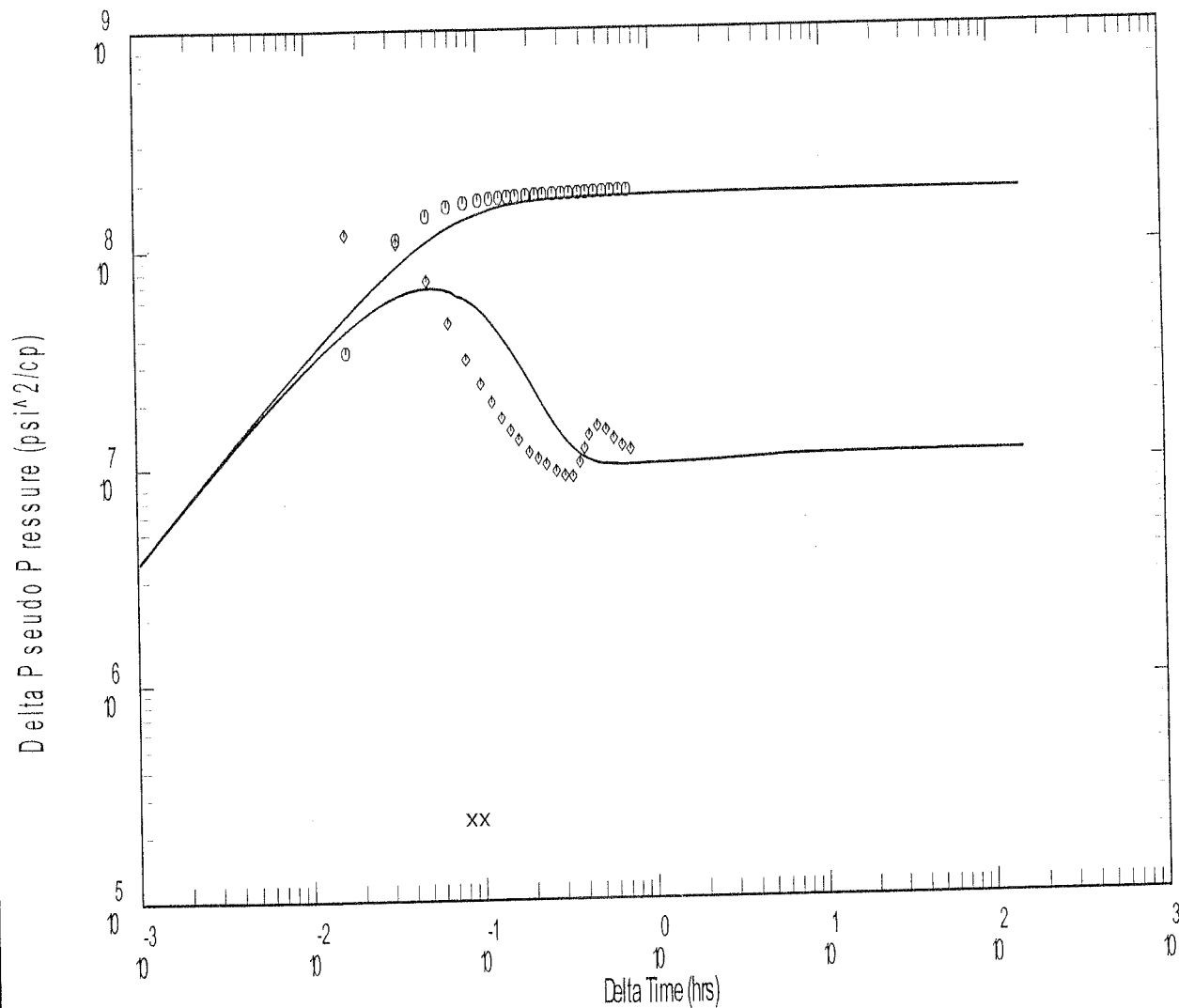
Test Date

County SUMNER

Sec Town Range 7-32S-3W

Field

Report Number 14755



MODEL RESULTS

Constant Storage
C1 : 5.00E-4 bbl/psi

Skin Model
Skin : 6.76

Homogeneous
k : 1.30 md
Est Pi : 1174.0 psi

No Barriers

h : 10 ft
mu : 0.08 cp
phi : 18.0%
a : 5.79E-04 1/psi
rw : 3.28 ft
BHT : 104 F
FVF : 0.75

Field :
County or Parish :
State :

Date Printed: 05/14/05 17:39:45
Analysis Period : 1ST SHUT-IN
Comment : Line #

Superposition Slope -> m' -70666.000000
Horner Slope -> m -2.614642E+7
Intercept 2.085E+8
P(dt=1 hr) 2.049E+8
Pwf 2.263E+7
R Sqr 0.9894

Intercept (psi) 1236.881
k (md) 1.30652
kh (md-ft) 13.06524
k/u (md/cp) 27.33313
kh/uB (md-ft/cp) 273.33130
Skin 6.6689
DP Skin 852.4975
Total DP 1086.3264
Percent DP 78.48%

Radius Invest (ft) 14
Radius Time (hrs) 0.75

Delta Q = 370
h (ft)= 10
mu (cp) = 0.0478
B (stb/scf) = 0.7484

First Point # 14
Second Point # 73
Start Real Time 0.183
End Real Time 0.675
Start SF Time 176.538

PVT Detail

INPUT DATA

Pressure of Interest (psia).....	1207.00
Temperature of Interest (F).....	104.00
Condensate Yield (bbl/mmscf).....	160.00
Water Cut (%).....	0.00%
Standard Pressure (psia).....	14.7000
Standard Temperature (F).....	60.0000
API Gravity Liq Hydrocarbon.....	0.000E+00
Water Salinity (ppm).....	0.000E+00
Solution GOR & Pb Correlation.....	STANDING
Formation Volume Factor Correlation.....	STANDING
Dead Oil Correlation.....	BEGGS-ROBINSON
Dead Water Correlation.....	MEEHAN
Reservoir Fluid Type.....	GAS
Reservoir Oil Saturation (%).....	0.00%
Reservoir H2O Saturation (%).....	40.00%
Reservoir Gas Saturation (%).....	60.00%
Reservoir Rock Type.....	SANDSTONE
Reservoir Rock Porosity (%).....	18.00%
True Vertical Depth (ft).....	3020
CO2 (Mole %).....	0.000E+00
H2S (Mole %).....	0.000E+00
N2 (Mole %).....	0.000E+00
Specific Gravity Gas (dim).....	0.6500
Pseudo Critical Temp (R).....	370.0000
Pseudo Critical Press (psia).....	671.0000

CALCULATED VALUES

Ct Reservoir (1/psi).....	5.791E-04
Cf Wellbore (1/psi).....	1.016E-04
Total Fluid Visc (cp).....	0.0569
Total FVF (bbl/stb).....	3.888E-03
Total Fluid Bubble Point Press (psi).....	0.2943
Fluid Density (lbs/r-ft3).....	25.8225
Total Fluid SG (dim).....	1.3153
Compress. H2O (1/psi).....	1.293E-05
Compress. Gas (1/psi).....	9.505E-04
Compress. Rock (1/psi).....	3.651E-06
Critical Temp (R).....	574.7362
Critical Press (psia).....	632.3730
Oil Vol Frac of Total Fluid (frac).....	0.000E+00
Water Vol Frac of Total Fluid (frac).....	0.000E+00

SUPERIOR TESTERS ENTERPRISES INC.

GREAT BEND, KANSAS

SUPERPOSITION ANALYSIS

(800) 792-6902

2ND SHUT-IN

State KANSAS

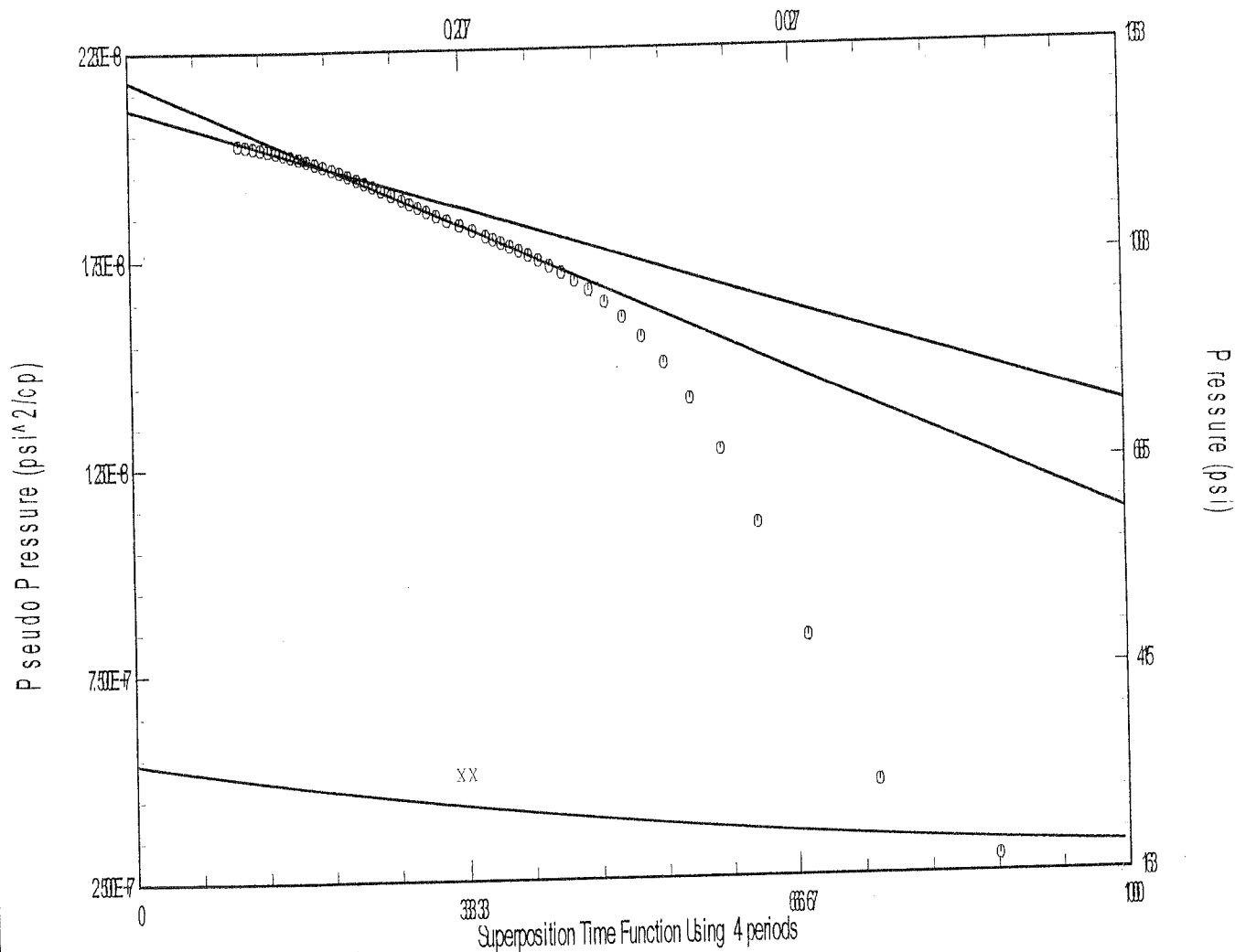
County SUMNER

Field

Test Date

Sec Town Range 7-32S-3W

Report Number 14755



MODEL RESULTS

Constant Storage
C1 : 8.00E-4 bbl/psi

No SKIN

Homogeneous
k : 2.38 md
Est Pi: 365 psi

No Boundaries

h : 10 ft
mu : 0.08 cp
phi : 18.0%
a : 5.79E-04 1/psi
rw : 3.23 ft
BHT : 104 F
FVF : 0.75

Field :
County or Parish :
State :

Date Printed: 05/14/05 17:42:23
Analysis Period : 2ND SHUT-IN
Comment : Line # 1

Superposition Slope -> m' -73040.070000
Horner Slope -> m -2.950819E+7
Intercept 2.113E+8
P(dt=1 hr) 2.012E+8
Pwf 2.921E+7
R Sqr 0.9791

Intercept (psi) 1256.782
k (md) 1.26406
kh (md-ft) 12.64057
k/u (md/cp) 26.44470
kh/uB (md-ft/cp) 264.44703
Skin 5.3670
DP Skin 770.4383
Total DP 1073.3681
Percent DP 71.78%

Radius Invest (ft) 20
Radius Time (hrs) 1.48

Delta Q = 404
h (ft)= 10
mu (cp) = 0.0478
B (stb/scf) = 0.7484

First Point # 44
Second Point # 166
Start Real Time 0.358
End Real Time 1.375
Start SF Time 256.307

Field :
County or Parish :
State :

Date Printed: 05/14/05 17:42:51
Analysis Period : 2ND SHUT-IN
Comment : Line # 2

Superposition Slope -> m' -1.061586E+5
Horner Slope -> m -4.288807E+7
Intercept 2.181E+8
P(dt=1 hr) 2.033E+8
Pwf 2.921E+7
R Sqr 0.9997

Intercept (psi) 1303.980
k (md) 0.86971
kh (md-ft) 8.69706
k/u (md/cp) 18.19469
kh/uB (md-ft/cp) 181.94693
Skin 3.5184
DP Skin 727.2119
Total DP 1120.5655
Percent DP 64.90%

Radius Invest (ft) 16
Radius Time (hrs) 1.48

Delta Q = 404
h (ft)= 10
mu (cp) = 0.0478
B (stb/scf) = 0.7484

First Point # 15
Second Point # 36
Start Real Time 0.117
End Real Time 0.292
Start SF Time 421.166