

15-083-21476

Hahn 'B' 1

Superior Testers Enterprises, Inc.

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

(316) 792-6902

Date 3-17-2002 Location G.W. 17-22-21N Elevation 2103 County Hodgeman
 Company Pickrell Drilling Company Inc. Number of Copies 5
 Charts Mailed to 100 South Main Santa Rosa Wichita Kansas 67202-5738
 Drilling Contractor Pickrell Drilling Rig 1
 Length Drill Pipe 36.86 I.D. Drill Pipe 3.80 Tool Joint Size 4 1/2" X 1 1/2"
 Length Weight Pipe NONE I.D. Weight Pipe NONE Tool Joint Size NONE
 Length Drill Collars 2.44 I.D. Drill Collars 2.25 Tool Joint Size 4 1/2" X 1 1/2"
 Top Packer Depth 3950 Bottom Packer Depth 3955 Number of Packers 2 Packer Size 6 3/4"
 TESTED FROM 3955 TO 3987 ANCHOR LENGTH 32 TOTAL DEPTH 3987 Hole Size 7 7/8"
 LEASE & WELL NO. Hahn 'B' FORMATION TESTED DRUM TEST NO. 1
 Mud Weight 9.4 Viscosity 40 Water Loss 10.4 Chlorides - Pits 18500 D.S.T. _____
 Maximum Temp. 113 °F Initial Hydrostatic Pressure (A) 2044 P.S.I. Final Hydrostatic Pressure (H) 2038 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 8:00 pm 30 min
 Tool Open F.F.P. from 8:00 pm to 8:30 pm 30 min
 Tool Closed F.C.I.P. from 8:30 pm to 9:00 pm 30 min
 Initial Blow WEAK blow for 10 minutes & DIED

from [B] <u>40</u>	P.S.I. to [C] <u>51</u>	P.S.I.
[D] <u>1292</u>		P.S.I.
from [E] <u>48</u>	P.S.I. to [F] <u>51</u>	P.S.I.
[G] <u>1190</u>		P.S.I.

Final Blow no blowTotal Feet Recovered 15 Gravity of Oil _____ Corrected _____

<u>15</u> Feet of <u>Drilling mud no shows</u>	% 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 NONE Safety Joint YES Extra Packer NONE Straddle NONE Hook Wall NONE
 Top Recorder No. 78225 Clock No. Electronic Depth 3980 Cir. Sub NONE Sampler NONE
 Bottom Recorder No. 5403 Clock No. 47441 Depth 3984 Insurance NONE

Price of Job _____

Tool Operator Don Smith

Approved By _____

12067

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.

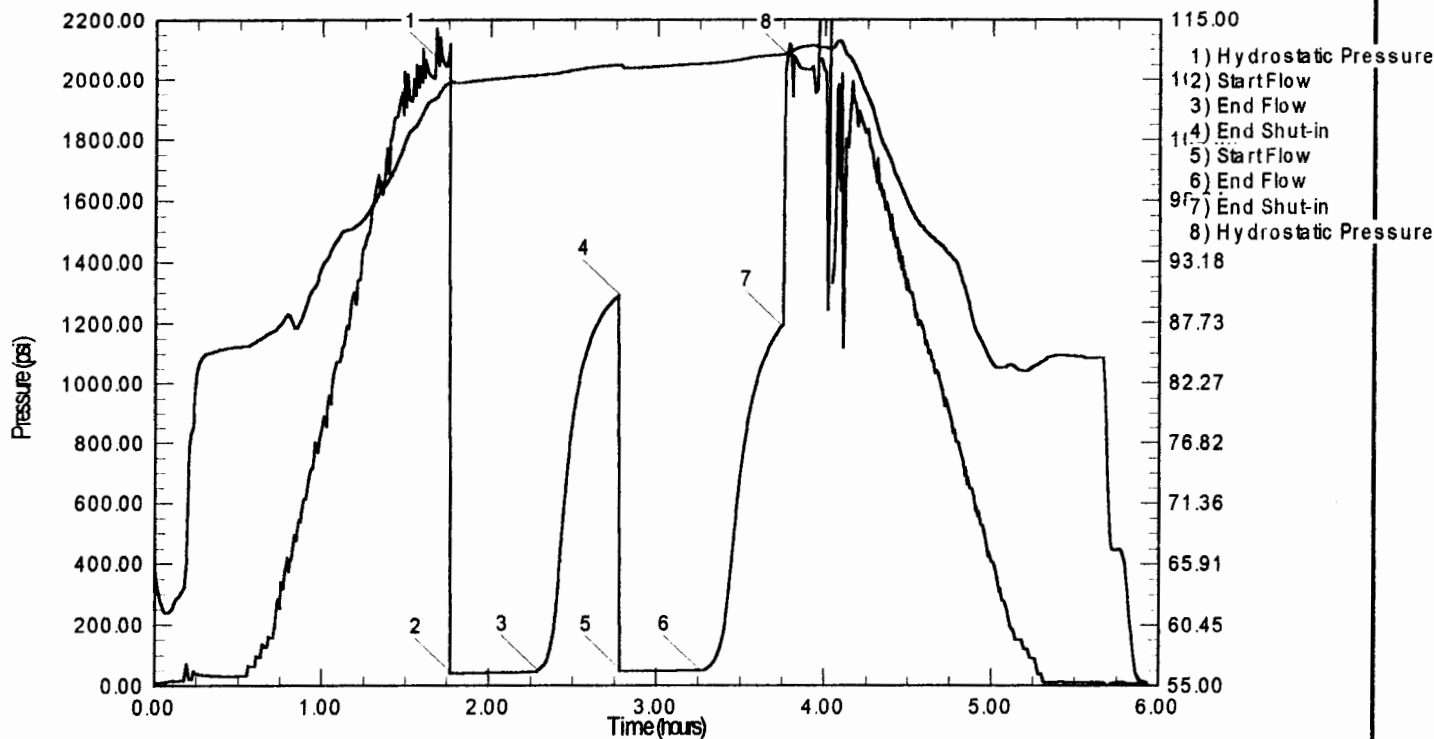
Great Bend, Kansas

CHART DATA

(316) 792-6902

State KANSAS
County HODGEMAN
Field

Test Date March 17, 2002
Sec Town Range 17-22S-21W
Report Number 12067



Field Reading

(1)	Initial Hydrostatic Pressure	2044
(2)	Initial Flow Pressure	40
(3)	Final Initial Flow Pressure	51
(4)	Initial Shut-In Pressure	1292
(5)	Initial Final Flow Pressure	42
(6)	Final Flow Pressure	51
(7)	Final Shut-In Pressure	1190
(8)	Final Hydrostatic Pressure	2038

ELECTRONIC RECORDER DEPTH 3980 FT, RECORDER NUMBER 78225

Company: PICKRELL DRILLING COMPANY INC. Lease & Well No. HAHN "B" Test #: 1 Date: 3-17-2002 SEC. 17
TWP. 22S RGE.21W

SUPERIOR TESTERS ENTERPRISES INC.

DRILL STEM TEST REPORT

GREAT BEND, KANSAS 67530 (316)792-6902

GENERAL INFORMATION

COMPANY NAME	PICKRELL DRILLING RIG #1	LEASE AND WELL NUMBER	HAHN "B"
TEST DATE	3/17/02	FORMATION TESTED	DRUM
SECTION-TOWN-RANGE	17-22S-21W	DRILL STEM TEST NUMBER	1
STATE	KANSAS	REPORT NUMBER	12067
COUNTY	HODGEMAN	ELEVATION KELLY BUSHINGS	2159
ELEVATION GROUND LEVEL	2154	TESTING ENGINEER	GENE BUDIG
COMPANY REPRESENTATIVE	ARDEN RATZLAFF		

TOOL SETTING INFORMATION

TEST INTERVAL (From)	3955	TOP PACKER DEPTH	3950
TEST INTERVAL (to)	3987	BOTTOM PACKER DEPTH	3955
ANCHOR LENGTH	32	NUMBER OF PACKERS	2
TOTAL DEPTH (ft)	3987	PACKER SIZE	6 3/4
		HOLE SIZE	7 7/8

FLOW TIMES

INITIAL OPEN

TOOL OPEN (from) **7:00**
TOOL OPEN (to) **7:30**
DURATION (min.) **30**

INITIAL SHUT-IN

TOOL CLOSED (from) **7:30**
TOOL CLOSED (to) **8:00**
DURATION (min.) **30**

FINAL OPEN

TOOL OPEN (from) **8:00**
TOOL OPEN (to) **8:30**
DURATION (min.) **30**

FINAL SHUT-IN

TOOL CLOSED (from) **8:30**
TOOL CLOSED (to) **9:00**
DURATION (min.) **30**

PRESSURE READINGS

INITIAL HYDROSTATIC **2044**
INITIAL FLOW **40**
FINAL INITIAL FLOW **51**
INITIAL SHUT-IN **1292**
INITIAL FINAL FLOW **42**
FINAL FLOW **51**
FINAL SHUT-IN **1190**
FINAL HYDROSTATIC **2038**

MAXIMUM TEMPERATURE **113**

TOP RECORDER DEPTH **3980**
RECORDER NUMBER **78225**
BOTTOM RECORDER DEPTH **3984**
RECORDER NUMBER **5463**

INITIAL BLOW

WEAK BLOW FOR 10 MINUTES AND DIED

FINAL BLOW

NO BLOW

EXTRA EQUIPMENT

JARS	NO	EXTRA PACKER (3RD)	NO
SAFETY JOINT	YES	EXTRA PACKER (4TH)	NO
ELECTRONIC RECORDER	YES	STRADDLE	NO
CIRCULATING SUB	NO	HOOK WALL	NO
		SAMPLER	NO

SUPERIOR TESTERS ENTERPRISES INC.

DRILL STEM TEST REPORT

GREAT BEND, KANSAS 67530 (316)792-6902

WELL INFORMATION

DRILLING CONTRACTOR **PICKRELL DRILLING RIG #1**

DRILL PIPE LENGTH **3686**

DRILL PIPE I.D. **3.8**

TOOL JOINT SIZE **4 1/2 X.H.**

DRILL COLLAR LENGTH **244**

DRILL COLLAR I.D. **2.25**

TOOL JOINT SIZE **4 1/2 X.H.**

WEIGHT PIPE LENGTH

WEIGHT PIPE I.D. **2.25**

TOOL JOINT SIZE **4 1/2 X.H.**

MUD WEIGHT #/GAL **9.6**

VISCOSITY **40**

WATER LOSS **10.8**

CHLORIDES-PITS **18500**

CHLORIDES-DST

FEET OF RECOVERY		RECOVERY DESCRIPTION	% GAS	% OIL	% MUD	% WATER
1)	15	DRILLING MUD NO SHOWS				
2)						
3)						
4)						
5)						
6)						
7)						
8)						
9)						
10)						
11)						
12)						
13)						
14)						
15)						

TOTAL RECOVERY

COMMENTS

Superior Testers Enterprises, Inc.

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

(316) 792-6902

2159 KB

Date 3-19-2008 Location C-910-41 17-22-21 W Elevation 2154 CL County Haskell

Company Pickrell Drilling Company Inc Number of Copies 5

Charts Mailed to 100 South Main Suite 505 Wichita Kansas 67202-3758

Drilling Contractor Pickrell Drilling Rig # 1

Length Drill Pipe 4046 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 244 I.D. Drill Collars 2.25 Tool Joint Size 4 1/2" X. H.

Top Packer Depth 4306 Bottom Packer Depth 4311 Number of Packers 2 Packer Size 6 3/4"

TESTED FROM 4311 TO 4341 ANCHOR LENGTH 30 TOTAL DEPTH 4341 Hole Size 7 7/8"

LEASE & WELL NO. Hahn B-41 FORMATION TESTED Foot Scott TEST NO. 820

Mud Weight 10.1 Viscosity 46 Water Loss 11.6 Chlorides - Pits 25000 D.S.T. _____

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

Tool Open I.F.P. from _____ m to _____ m _____ min

from [B] _____ P.S.I. to [C] _____ P.S.I.

Tool Closed I.C.I.P. from _____ m to _____ m _____ min

[D] _____ P.S.I.

Tool Open F.F.P. from _____ m to _____ m _____ min

from [E] _____ P.S.I. to [F] _____ P.S.I.

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

[G] _____ P.S.I.

Initial Blow _____

Final Blow _____

Total Feet Recovered _____ Gravity of Oil _____ Corrected _____

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

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

Feet of Miss run water started flowing % Gas _____ % Oil _____ % Mud _____ % Water _____

Feet of pulled out to approx 1000 feet % Gas _____ % Oil _____ % Mud _____ % Water _____

Feet of DROPPED BAR CIRCL Heavy mud to % Gas _____ % Oil _____ % Mud _____ % Water _____

Feet of Kill water zone % 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 NONE Safety Joint YES Extra Packer NONE Straddle NONE Hook Wall NONE

Top Recorder No. 78225 Clock No. ELECTRONIC Depth 4334 Cir. Sub none Sampler NONE

Bottom Recorder No. 5463 Clock No. 47441 Depth 4338 Insurance NONE

Price of Job _____

Tool Operator Don Brudig

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, 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.

N2 12068

Company: **PICKRELL DRILLING COMPANY INC.** Lease & Well No. **HAHN "B" #1** Test #: **2** Date: **3-19-2002** SEC. **17**
TWP. **22S** RGE. **21W**

SUPERIOR TESTERS ENTERPRISES INC.

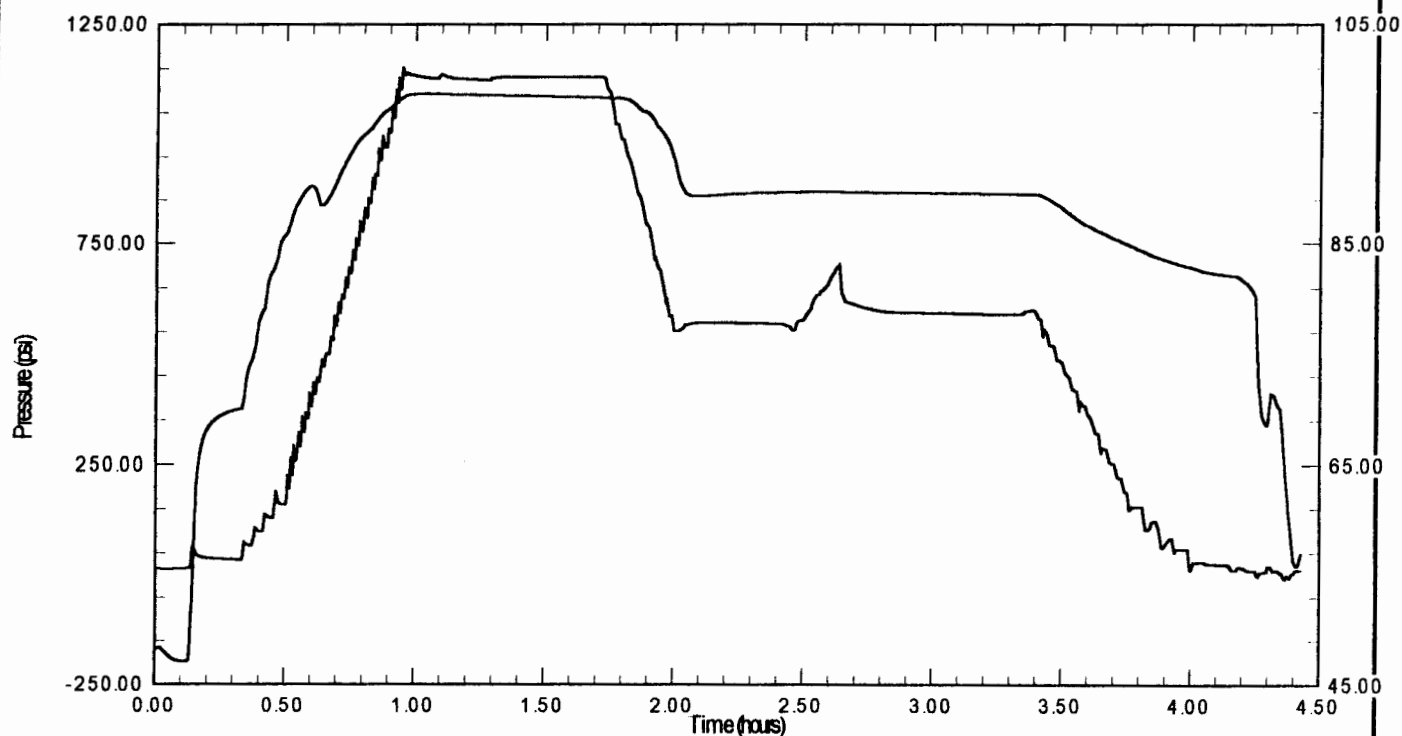
Great Bend, Kansas

CHART DATA

(316) 792-6902

State **KANSAS**
County **HODGEEMAN**
Field

Test Date **March 19, 2002**
Sec Town Range **17-22S-21W**
Report Number **12068**



Field Reading

- | | | |
|-----|------------------------------|----------|
| (1) | Initial Hydrostatic Pressure | |
| (2) | Initial Flow Pressure | |
| (3) | Final Initial Flow Pressure | |
| (4) | Initial Shut-In Pressure | |
| (5) | Initial Final Flow Pressure | MISS RUN |
| (6) | Final Flow Pressure | WATER |
| (7) | Final Shut-In Pressure | STARTED |
| (8) | Final Hydrostatic Pressure | FLOWING |

ELECTRONIC RECORDER DEPTH 433 FT, RECORDER NUMBER 78225

SUPERIOR TESTERS ENTERPRISES INC.

DRILL STEM TEST REPORT

GREAT BEND ,KANSAS 67530 (316)792-6902

GENERAL INFORMATION

COMPANY NAME	PICKRELL DRILLING COMPANY INC.	LEASE AND WELL NUMBER	HAHN "B" #1
TEST DATE	3/19/02	FORMATION TESTED	FORT SCOTT
SECTION-TOWN-RANGE	17-22S-21W	DRILL STEM TEST NUMBER	2
STATE	KANSAS	REPORT NUMBER	12068
COUNTY	HODGEEMAN	ELEVATION KELLY BUSHINGS	2159
ELEVATION GROUND LEVEL	2154	TESTING ENGINEER	GENE BUDIG
COMPANY REPRESENTATIVE	AREDEN RATZLAFF		

TOOL SETTING INFORMATION

TEST INTERVAL (From)	4311	TOP PACKER DEPTH	4306
TEST INTERVAL (to)	4341	BOTTOM PACKER DEPTH	4311
ANCHOR LENGTH	30	NUMBER OF PACKERS	2
TOTAL DEPTH (ft)	4341	PACKER SIZE	6 3/4
		HOLE SIZE	7 7/8

FLOW TIMES

INITIAL OPEN

TOOL OPEN (from)

TOOL OPEN (to)

DURATION (min.)

INITIAL SHUT-IN

TOOL CLOSED (from) **0:00** |

TOOL CLOSED (to)

DURATION (min.)

FINAL OPEN

TOOL OPEN (from) **0:00** |

TOOL OPEN (to)

DURATION (min.)

FINAL SHUT-IN

TOOL CLOSED (from) **0:00** |

TOOL CLOSED (to)

DURATION (min.)

PRESSURE READINGS

INITIAL HYDROSTATIC

INITIAL FLOW

FINAL INITIAL FLOW

INITIAL SHUT-IN

INITIAL FINAL FLOW **MISS RUN** |

FINAL FLOW **WATER** |

FINAL SHUT-IN **STARTED** |

FINAL HYDROSTATIC **FLOWING** |

MAXIMUM TEMPERATURE **98** |

TOP RECORDER DEPTH **433** |

RECORDER NUMBER **78225** |

BOTTOM RECORDER DEPTH **4338** |

RECORDER NUMBER **5463** |

INITIAL BLOW

**GOT TOOL TO APPROX 3200 FEET WATER STARTED FLOWING OUT THE
FLOW LINE PULLED TOOLUP TO APPROX 1000 FEET OPENED THE
CIRC. SUB PUMPED MUD DOWN TO KILL WATER CAME ON OUT LAID
DOWN TOOL WENT IN TO RECONDITION AND RETEST**

FINAL BLOW

EXTRA EQUIPMENT

JARS	NO	EXTRA PACKER (3RD)	NO
SAFETY JOINT	YES	EXTRA PACKER (4TH)	NO
ELECTRONIC RECORDER	YES	STRADDLE	NO
CIRCULATING SUB	YES	HOOK WALL	NO
		SAMPLER	NO

SUPERIOR TESTERS ENTERPRISES INC.

DRILL STEM TEST REPORT

GREAT BEND ,KANSAS 67530 (316)792-6902

WELL INFORMATION

DRILLING CONTRACTOR **PICKRELL DRILLING RIG #1**

DRILL PIPE LENGTH **4046**

DRILL PIPE I.D. **3.8**

TOOL JOINT SIZE **4 1/2 X.H.**

DRILL COLLAR LENGTH **244**

DRILL COLLAR I.D. **2.25**

TOOL JOINT SIZE **4 1/2 X.H.**

WEIGHT PIPE LENGTH

WEIGHT PIPE I.D. **2.25**

TOOL JOINT SIZE **4 1/2 X.H.**

MUD WEIGHT #/GAL **10.1**

VISCOSITY **46**

WATER LOSS **11.6**

CHLORIDES-PITS **25000**

CHLORIDES-DST

FEET OF RECOVERY	RECOVERY DECIPTION	% GAS	% OIL	% MUD	% WATER
1)					
2)					
3)					
4)					
5)					
6)					
7)					
8)					
9)					
10)					
11)					
12)					
13)					
14)					
15)					

TOTAL RECOVERY

COMMENTS

Superior Testers Enterprises, Inc.

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

(316) 792-6902

Location C-9W-M 17-22S-21W Elevation 2159 KB 21546L County Hodgeman

Pickrell Drilling Company Inc.

Number of Copies 5

Mailed to 100 South Main Suite 505 Wichita Kansas 67202-3788

Drilling Contractor Pickrell Drilling Dig #1

Length Drill Pipe 4046 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 244 I.D. Drill Collars 2.25 Tool Joint Size 4 1/2" X.H.

Top Packer Depth 4306 Bottom Packer Depth 4341 Number of Packers 2 Packer Size 6 3/4"

TESTED FROM 4311 TO 4341 ANCHOR LENGTH 30 TOTAL DEPTH 4341 Hole Size 7 7/8"

LEASE & WELL NO. Hahn "B" #1 FORMATION TESTED Foot South TEST NO. 23

Mud Weight 10" Viscosity 46 Water Loss 11 1/4 Chlorides - Pits 2500 D.S.T.

Maximum Temp. 117 °F Initial Hydrostatic Pressure (A) 2394 P.S.I. Final Hydrostatic Pressure (H) 2188 P.S.I.

Tool Open I.F.P. from 8:30 A.M. to 9:00 A.M. 30 min

Tool Closed I.C.I.P. from 9:00 A.M. to 9:45 A.M. 45 min

Tool Open F.F.P. from 9:45 A.M. to 10:45 A.M. 60 min

Tool Closed F.C.I.P. from 10:45 A.M. to 11:45 A.M. 60 min

Initial Blow Fair blow built to the Bottom of a 5 Gallon Bucket in 12 minutes

Final Blow Fair blow built to the Bottom of a 5 Gallon Bucket in 1 min Decreased to

Total Feet Recovered 375 Gravity of Oil Fair Blow Corrector

1400 Feet of Gas in the Pipe %Gas %Oil %Mud %Water

105 Feet of Very Slightly Oil cut Gassy mud 22 %Gas 3 %Oil 78 %Mud 0 %Water

150 Feet of Gassy muddy Frothy oil 20 %Gas 40 %Oil 40 %Mud 0 %Water

60 Feet of Slightly Oil mud cut Gassy oil 10 %Gas 40 %Oil 40 %Mud 0 %Water

60 Feet of Mud cut Gassy oil 40 %Gas 40 %Oil 20 %Mud 0 %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 - Jar NONE Safety Joint YES Extra Packer NONE Straddle NONE Hook Wall NONE

Top Recorder No. 28225 Clock No. Electronic Depth 4334 Cir. Sub NONE Sampler NONE

Bottom Recorder No. 5463 Clock No. 47441 Depth 4338 Insurance NONE

Price of Job

Tool Operator Gene Budz

Approved By

NO 12069

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SUPERIOR TESTERS ENTERPRISES INC.

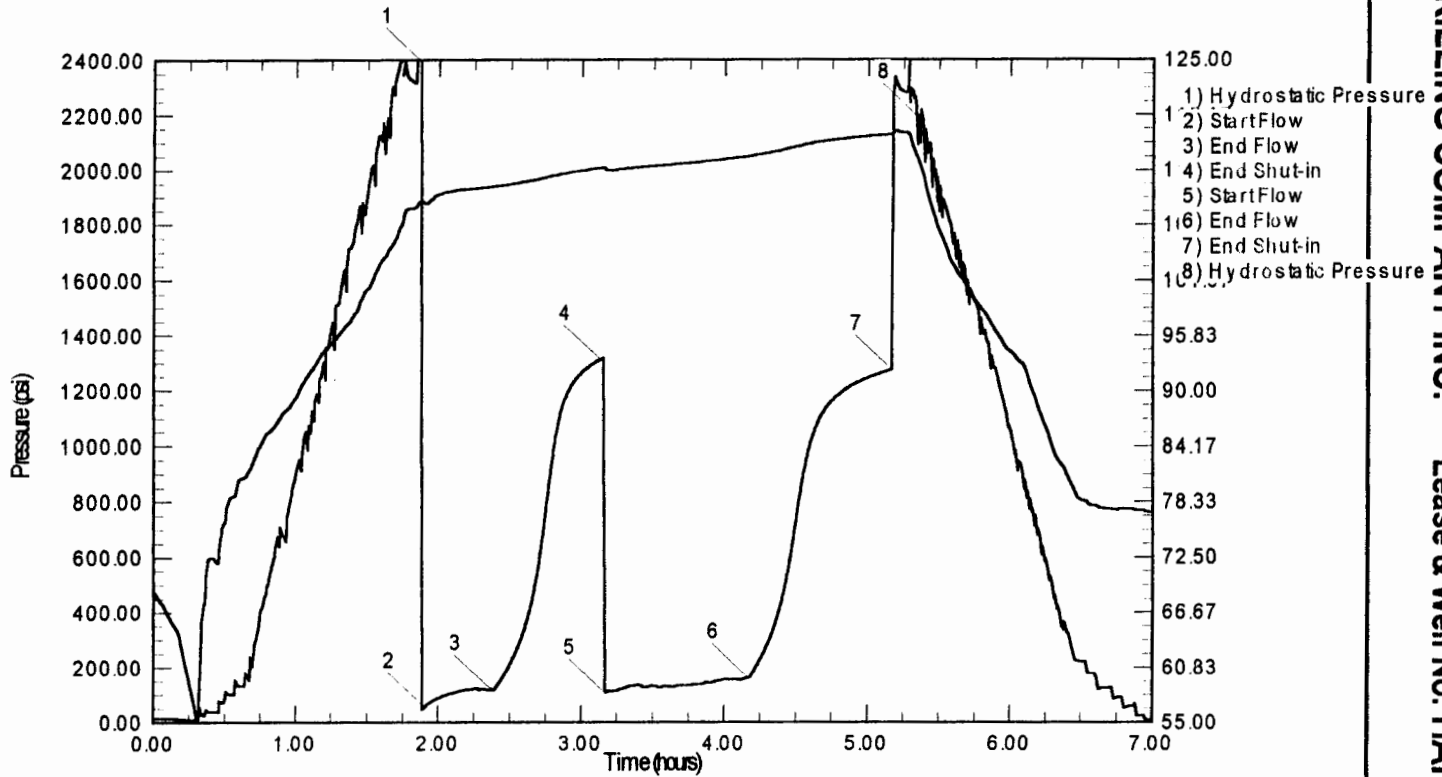
Great Bend, Kansas

CHART DATA

(316) 792-6902

State KANSAS
County HODGEE MAN
Field

Test Date March 20, 2002
Sec Town Range 17-22S-21W
Report Number 12069



Field Reading

(1)	Initial Hydrostatic Pressure	2394
(2)	Initial Flow Pressure	56
(3)	Final Initial Flow Pressure	121
(4)	Initial Shut-In Pressure	1314
(5)	Initial Final Flow Pressure	
(6)	Final Flow Pressure	105
(7)	Final Shut-In Pressure	181
(8)	Final Hydrostatic Pressure	1277

ELECTRONIC RECORDER DEPTH 433 FT, RECORDER NUMBER 78225

Company: PICKRELL DRILLING COMPANY INC. Lease & Well No. HAHN "B" #1 Test #: 3 Date: 3-20-2002 SEC. 17
TWP. 22S RGE. 21W

SUPERIOR TESTERS ENTERPRISES INC.

DRILL STEM TEST REPORT

GREAT BEND ,KANSAS 67530 (316)792-6902

GENERAL INFORMATION

COMPANY NAME	PICKRELL DRILLING COMPANY INC.	LEASE AND WELL NUMBER	HAHN "B" #1
TEST DATE	3/20/02	FORMATION TESTED	FORT SCOTT
SECTION-TOWN-RANGE	17-22S-21W	DRILL STEM TEST NUMBER	3
STATE	KANSAS	REPORT NUMBER	12069
COUNTY	HODGEEMAN	ELEVATION KELLY BUSHINGS	2159
ELEVATION GROUND LEVEL	2154	TESTING ENGINEER	GENE BUDIG
COMPANY REPRESENTATIVE	AREDEN RATZLAFF		

TOOL SETTING INFORMATION

TEST INTERVAL (From)	4311	TOP PACKER DEPTH	4306
TEST INTERVAL (to)	4341	BOTTOM PACKER DEPTH	4311
ANCHOR LENGTH	30	NUMBER OF PACKERS	2
TOTAL DEPTH (ft)	4341	PACKER SIZE	6 3/4
		HOLE SIZE	7 7/8

FLOW TIMES

INITIAL OPEN

TOOL OPEN (from)	8:30
TOOL OPEN (to)	9:00
DURATION (min.)	30

INITIAL SHUT-IN

TOOL CLOSED (from)	9:00
TOOL CLOSED (to)	9:45
DURATION (min.)	45

FINAL OPEN

TOOL OPEN (from)	9:45
TOOL OPEN (to)	10:45
DURATION (min.)	60

FINAL SHUT-IN

TOOL CLOSED (from)	10:45
TOOL CLOSED (to)	11:45
DURATION (min.)	60

PRESSURE READINGS

INITIAL HYDROSTATIC	2394
INITIAL FLOW	56
FINAL INITIAL FLOW	121
INITIAL SHUT-IN	1314
INITIAL FINAL FLOW	
FINAL FLOW	105
FINAL SHUT-IN	181
FINAL HYDROSTATIC	1277
MAXIMUM TEMPERATURE	117
TOP RECORDER DEPTH	433
RECORDER NUMBER	78225
BOTTOM RECORDER DEPTH	4338
RECORDER NUMBER	5463

INITIAL BLOW

FAIR BLOW BUILT TO THE BOTTOM OF A 5 GALLON BUCKET IN 12 MINUTES

FINAL BLOW

**FAIR BLOW BUILT TO THE BOTTOM OF A 5 GALLON BUCKET IN 1 MINUTE
DECREASED TO A FAIR BLOW LIKE THE 1ST FLOW**

EXTRA EQUIPMENT

JARS	NO	EXTRA PACKER (3RD)	NO
SAFETY JOINT	YES	EXTRA PACKER (4TH)	NO
ELECTRONIC RECORDER	YES	STRADDLE	NO
CIRCULATING SUB	NO	HOOK WALL	NO
		SAMPLER	NO

SUPERIOR TESTERS ENTERPRISES INC.

DRILL STEM TEST REPORT

GREAT BEND, KANSAS 67530 (316)792-6902

WELL INFORMATION

DRILLING CONTRACTOR **PICKRELL DRILLING RIG #1**

DRILL PIPE LENGTH **4046**

DRILL PIPE I.D. **3.8**

TOOL JOINT SIZE **4 1/2 X.H.**

DRILL COLLAR LENGTH **244**

DRILL COLLAR I.D. **2.25**

TOOL JOINT SIZE **4 1/2 X.H.**

WEIGHT PIPE LENGTH

WEIGHT PIPE I.D. **2.25**

TOOL JOINT SIZE **4 1/2 X.H.**

MUD WEIGHT #/GAL **10.1**

VISCOSITY **46**

WATER LOSS **11.6**

CHLORIDES-PITS **25000**

CHLORIDES-DST

FEET OF RECOVERY	RECOVERY DESCRIPTION	% GAS	% OIL	% MUD	% WATER
1) 1400	GAS IN THE PIPE				
2) 105	VERY SLIGHTLY OIL CUT GASSY MUD	22	3	75	0
3) 150	GASSY MUDDY FROTHY OIL	20	40	40	0
4) 60	SLIGHTLY MUD CUT GASSY OIL	10	85	5	0
5) 60	MUD CUT GASSY OIL	40	40	20	0
6)					
7)					
8)					
9)					
10)					
11)					
12)					
13)					
14)					
15)					

TOTAL RECOVERY

COMMENTS

SUPERIOR TESTERS ENTERPRISES INC.

GREAT BEND, KANSAS

SUPERPOSITION ANALYSIS

(316) 792-6902

1ST SHUT-IN

State KANSAS

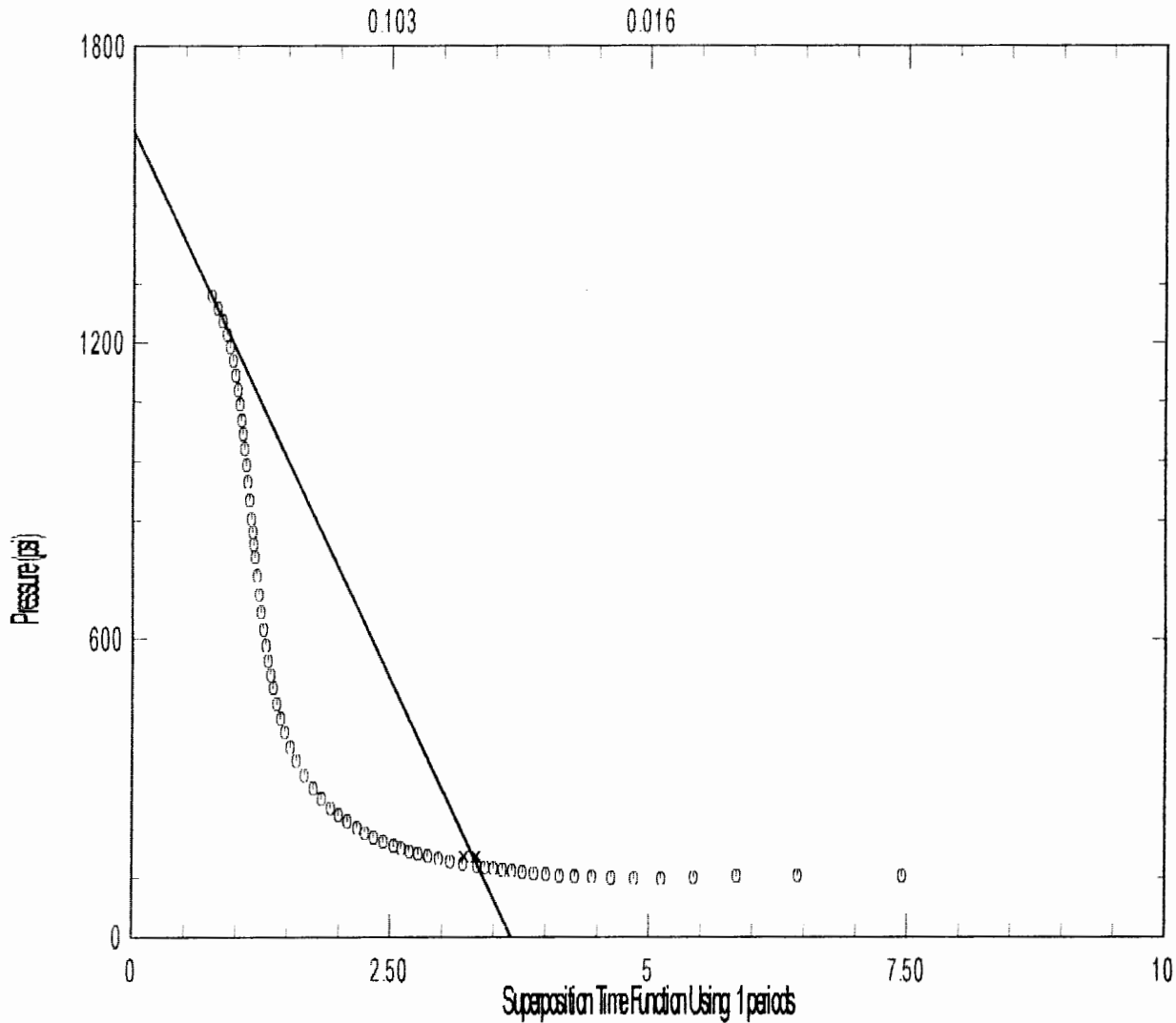
Test Date 3/20/02

County HODGEE MAN

Sec Town Range 17-22S-21W

Field

Report Number 12069



MODEL RESULTS

No WBS

Skin Model

Homogeneous

No Boundaries

h : 11 ft

Skin : 2.63

k : 0.058 md

mu : 1.544 cp

Est Pi: 3536.4 psi

phi : 5.0%

ct : 1.105E-03 1/psi

rw : 3.208 ft

FVF : 1.08

Field :
County or Parish :
State :

Date Printed: 03/20/02 14:40:55
Analysis Period : End Flow - End 1st Shut-in
Comment : Line #

Superposition Slope -> m' -444.361000
Horner Slope -> m -1510.827374
Intercept 1629.104
P(dt=1 hr) 1378.551
Pwf 120.710
R Sqr 0.9998

k (md) 0.05536
kh (md-ft) 0.60893
k/u (md/cp) 0.03586
kh/uB (md-ft/cp) 0.36592

Skin 2.602
DP Skin 3419.513
Total DP 1508.394
Percent DP 226.70%

Radius Invest (ft) 1
Radius Time (hrs) 0.76

Delta Q = 3
h (ft)= 11
mu = 1.544
B = 1.078

First Point # 216
Second Point # 245
Start Real Time 0.645
End Real Time 0.732
Start SF Time 0.802

SUPERIOR TESTERS ENTERPRISES INC.

GREAT BEND, KANSAS

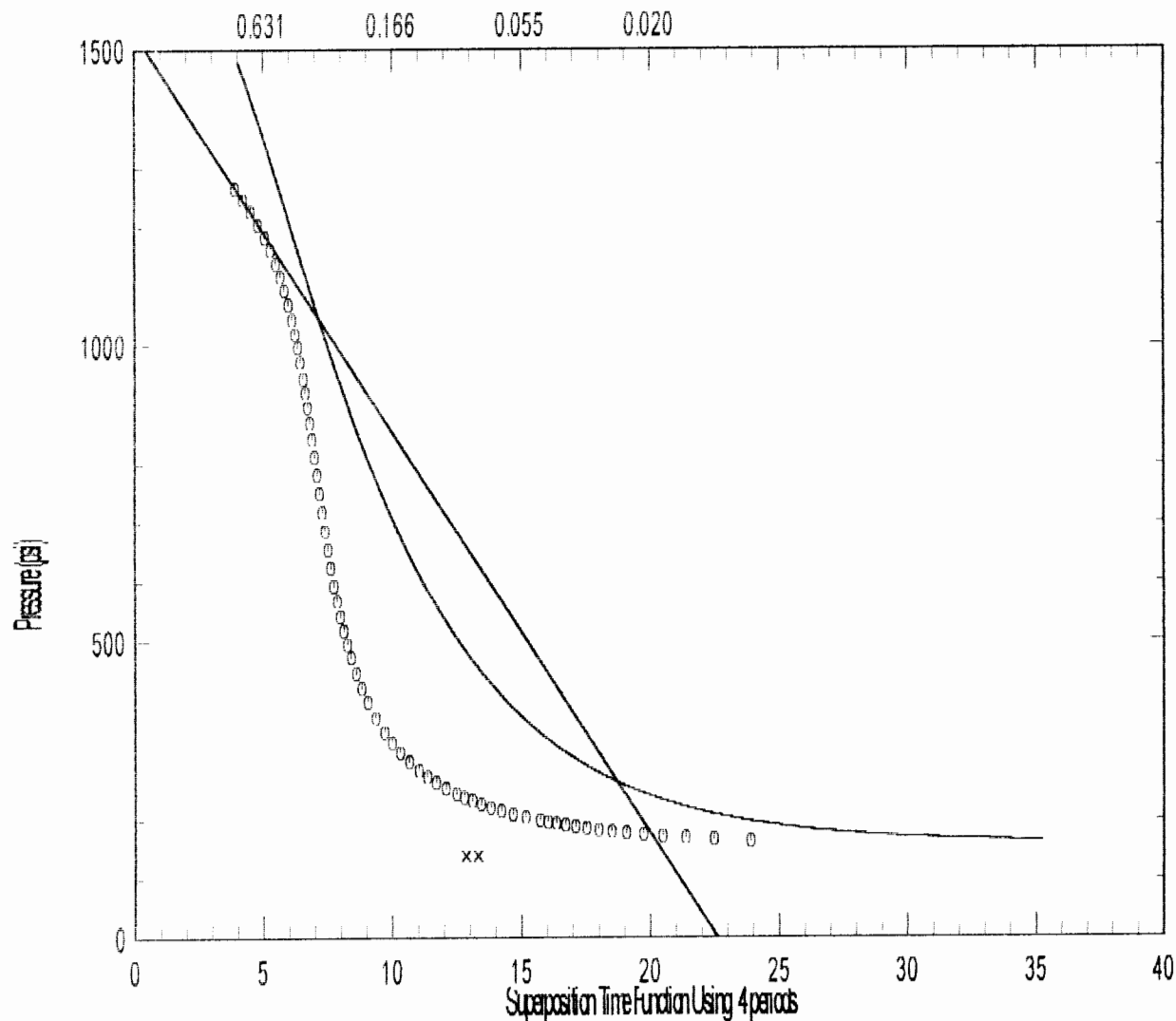
SUPERPOSITION ANALYSIS

(316) 792-6902

2ND SHUT-IN

State KANSAS
County HODGEEMAN
Field

Test Date 3/20/02
Sec Town Range 17-22S-21W
Report Number 12069



MODEL RESULTS

Constant Storage	Skin Model	Homogeneous	No Boundaries	h : 11 ft
C1 : 1.150E-4 bbl/psi	Skin : 2.55	k : 0.422 md		mu : 1.544 cp
		Est Pi: 1699.0 psi		phi : 5.0%
				ct : 1.105E-03 1/psi
				rw : 3.208 ft
				FVF : 1.08

Field :
County or Parish :
State :

Date Printed: 03/20/02 14:46:05
Analysis Period : End Flow - End 2ND Shut-in
Comment : Line #

Superposition Slope -> m' -67.630490
Horner Slope -> m -777.750671
Intercept 1529.896
P(dt=1 hr) 1280.595
Pwf 161.110
R Sqr 0.9976

k (md) 0.36372
kh (md-ft) 4.00092
k/u (md/cp) 0.23562
kh/uB (md-ft/cp) 2.40424

Skin 2.359
DP Skin 1596.173
Total DP 1368.786
Percent DP 116.61%

Radius Invest (ft) 2
Radius Time (hrs) 1.00

Delta Q = 12
h (ft)= 11
mu = 1.544
B = 1.078

First Point # 214
Second Point # 300
Start Real Time 0.645
End Real Time 0.996
Start SF Time 4.930

Superior Testers Enterprises, Inc.

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

(316) 792-6902

Date 3-21-2002 Location C. & W. 17-22-21 N Elevation 2159 Ks County Hodgeman

Company Pickrell Drilling & Service Company Inc. Number of Copies 5

Charts Mailed to 100 South Main Street Suite 905 Wichita Kansas 67202-5738

Drilling Contractor Pickrell Drilling & Service

Length Drill Pipe 4100 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 244 I.D. Drill Collars 2.25 Tool Joint Size 4 1/2" X 4

Top Packer Depth 4360 Bottom Packer Depth 4365 Number of Packers 2 Packer Size 6 3/4"

TESTED FROM 4365 TO 4417 ANCHOR LENGTH 52 TOTAL DEPTH 4417 Hole Size 7 7/8"

LEASE & WELL NO. Hahn #1 FORMATION TESTED Mississippian TEST NO. 4

Mud Weight 10.4 Viscosity 51 Water Loss 108 Chlorides - Pits 25000 D.S.T. 32000

Maximum Temp. 127 °F Initial Hydrostatic Pressure (A) 2385 P.S.I. Final Hydrostatic Pressure (H) 2314 P.S.I.

Tool Open I.F.P. from 10:45 p.m. to 11:15 p.m. 30 min

Tool Closed I.C.I.P. from 11:15 p.m. to 12:15 p.m. 60 min

Tool Open F.F.P. from 12:15 p.m. to 1:15 p.m. 60 min

Tool Closed F.C.I.P. from 1:15 p.m. to 2:45 p.m. 90 min

Initial Blow Good blow built to the bottom of a 5 Gallon bucket in 1 minute

Final Blow Good blow built to the bottom of a 5 Gallon bucket in 1 minute

Total Feet Recovered 2550 Gravity of Oil _____ Corrected _____

2550 Feet of SALT WATER NO SHOWS % 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 _____

Remarks _____

Extra Equipment - Jars NONE Safety Joint 400 Extra Packer NONE Straddle NONE Hook Wall NONE

Top Recorder No. 78225 Clock No. 44444 Depth 4410 Cir. Sub NONE Sampler NONE

Bottom Recorder No. 5463 Clock No. 47441 Depth 4414 Insurance NONE

Price of Job _____

Tool Operator Gene Guly

Approved By _____

NE 12070

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.

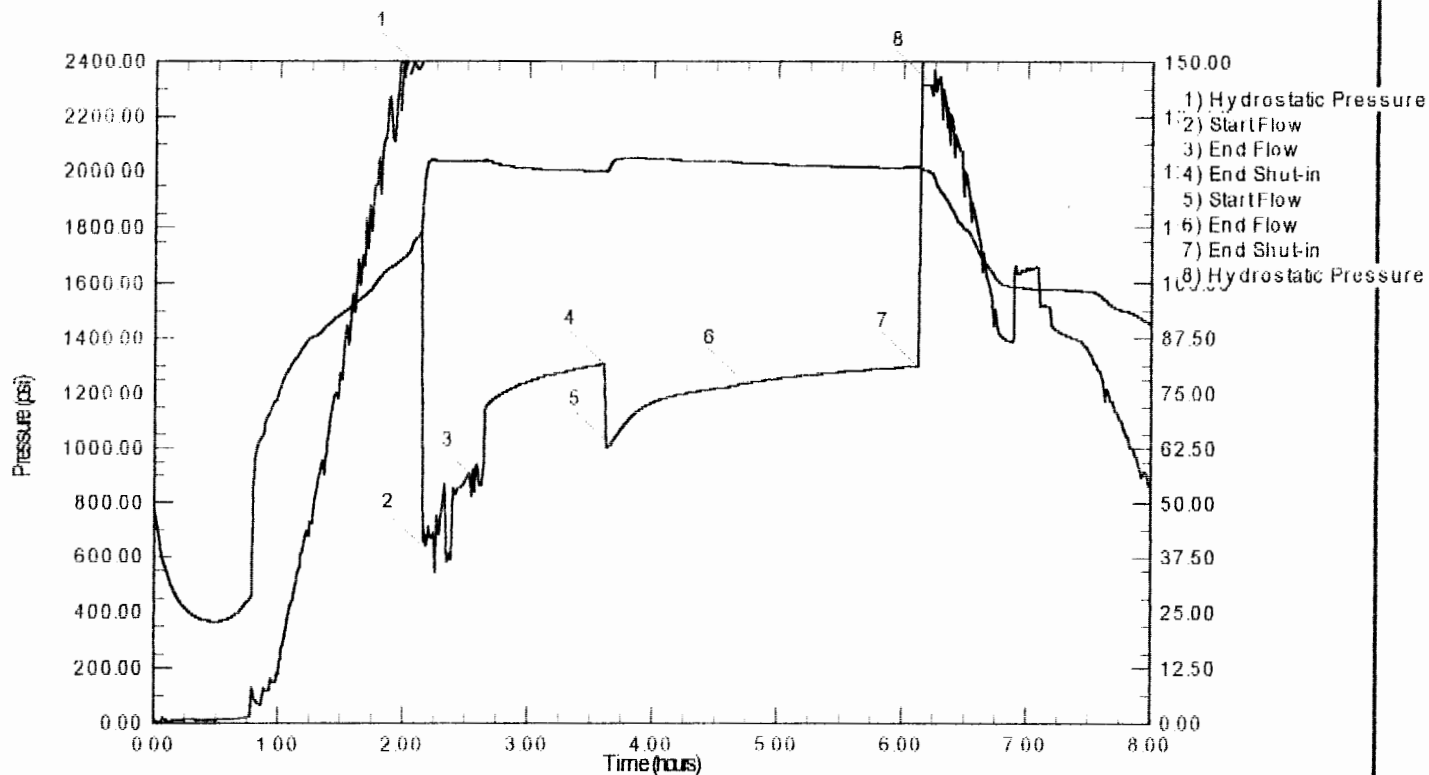
Great Bend, Kansas

CHART DATA

(316) 792-6902

State KANSAS
County HODGEMAN
Field

Test Date 3-21-2002\
Sec Town Range 17-22S-21W
Report Number 12070



Field Reading

(1)	Initial Hydrostatic Pressure	2385
(2)	Initial Flow Pressure	638
(3)	Final Initial Flow Pressure	863
(4)	Initial Shut-In Pressure	1306
(5)	Initial Final Flow Pressure	1014
(6)	Final Flow Pressure	1237
(7)	Final Shut-In Pressure	1298
(8)	Final Hydrostatic Pressure	2316

ELECTRONIC RECORDER DEPTH 4410 FT, RECORDER NUMBER 78225

SUPERIOR TESTERS ENTERPRISES INC.

DRILL STEM TEST REPORT

GREAT BEND, KANSAS 67530 (316)792-6902

GENERAL INFORMATION

COMPANY NAME	PICKRELLDRILLING COMPANY INC.	LEASE AND WELL NUMBER	HAHN "B" #1
TEST DATE	3-21-2002	FORMATION TESTED	MISSISSIPPI
SECTION-TOWN-RANGE	17-22S-21W	DRILL STEM TEST NUMBER	4
STATE	KANSAS	REPORT NUMBER	12070
COUNTY	HODGEMAN	ELEVATION KELLY BUSHINGS	2159
ELEVATION GROUND LEVEL	2154	TESTING ENGINEER	GENE BUDIG
COMPANY REPRESENTATIVE	ARDEN RATZLAFF		

TOOL SETTING INFORMATION

TEST INTERVAL (From)	4365	TOP PACKER DEPTH	4360
TEST INTERVAL (to)	4417	BOTTOM PACKER DEPTH	4365
ANCHOR LENGTH	52	NUMBER OF PACKERS	2
TOTAL DEPTH (ft)	4417	PACKER SIZE	6 3/4
		HOLE SIZE	7 7/8

FLOW TIMES

INITIAL OPEN

TOOL OPEN (from)	10:45
TOOL OPEN (to)	11:15
DURATION (min.)	30

INITIAL SHUT-IN

TOOL CLOSED (from)	11:15
TOOL CLOSED (to)	12:15
DURATION (min.)	60

FINAL OPEN

TOOL OPEN (from)	12:15
TOOL OPEN (to)	1:15
DURATION (min.)	60

FINAL SHUT-IN

TOOL CLOSED (from)	1:15
TOOL CLOSED (to)	2:45
DURATION (min.)	90

PRESSURE READINGS

INITIAL HYDROSTATIC	2385
INITIAL FLOW	638
FINAL INITIAL FLOW	863
INITIAL SHUT-IN	1306
INITIAL FINAL FLOW	1014
FINAL FLOW	1237
FINAL SHUT-IN	1298
FINAL HYDROSTATIC	2316

MAXIMUM TEMPERATURE	127
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TOP RECORDER DEPTH	4410
RECORDER NUMBER	78225
BOTTOM RECORDER DEPTH	4414
RECORDER NUMBER	5463

INITIAL BLOW

GOOD BLOW BUILT TO THE BOTTOM OF A 5 GALLON BUCKET IN 1 MINUTE

FINAL BLOW

GOOD BLOW BUILT TO THE BOTTOM OF A 5 GALLON BUCKET IN 1 MINUTE

EXTRA EQUIPMENT

JARS	NO	EXTRA PACKER (3RD)	NO
SAFETY JOINT	YES	EXTRA PACKER (4TH)	NO
ELECTRONIC RECORDER	YES	STRADDLE	NO
CIRCULATING SUB	YES	HOOK WALL	NO
		SAMPLER	NO

SUPERIOR TESTERS ENTERPRISES INC.

DRILL STEM TEST REPORT

GREAT BEND, KANSAS 67530 (316)792-6902

WELL INFORMATION

DRILLING CONTRACTOR **PICKRELL DRILLING RIG #1**

DRILL PIPE LENGTH **4100**

DRILL PIPE I.D. **3.8**

TOOL JOINT SIZE **4 1/2 X.H.**

DRILL COLLAR LENGTH **244**

DRILL COLLAR I.D. **2.25**

TOOL JOINT SIZE **4 1/2 X.H.**

WEIGHT PIPE LENGTH

WEIGHT PIPE I.D. **2.25**

TOOL JOINT SIZE **4 1/2 X.H.**

MUD WEIGHT #/GAL **10.1**

VISCOSITY **51**

WATER LOSS **10.8**

CHLORIDES-PITS **25000**

CHLORIDES-DST **32000**

FEET OF RECOVERY		RECOVERY DECRPTION	% GAS	% OIL	% MUD	% WATER
1)	2550	SALT WATER NO SHOWS				
2)						
3)						
4)						
5)						
6)						
7)						
8)						
9)						
10)						
11)						
12)						
13)						
14)						
15)						
		TOTAL RECOVERY				

COMMENTS