

SUPERIOR TESTERS ENTERPRISES INC.

Great Bend, Kansas

CHART DATA

(316) 792-6902

State KANSAS

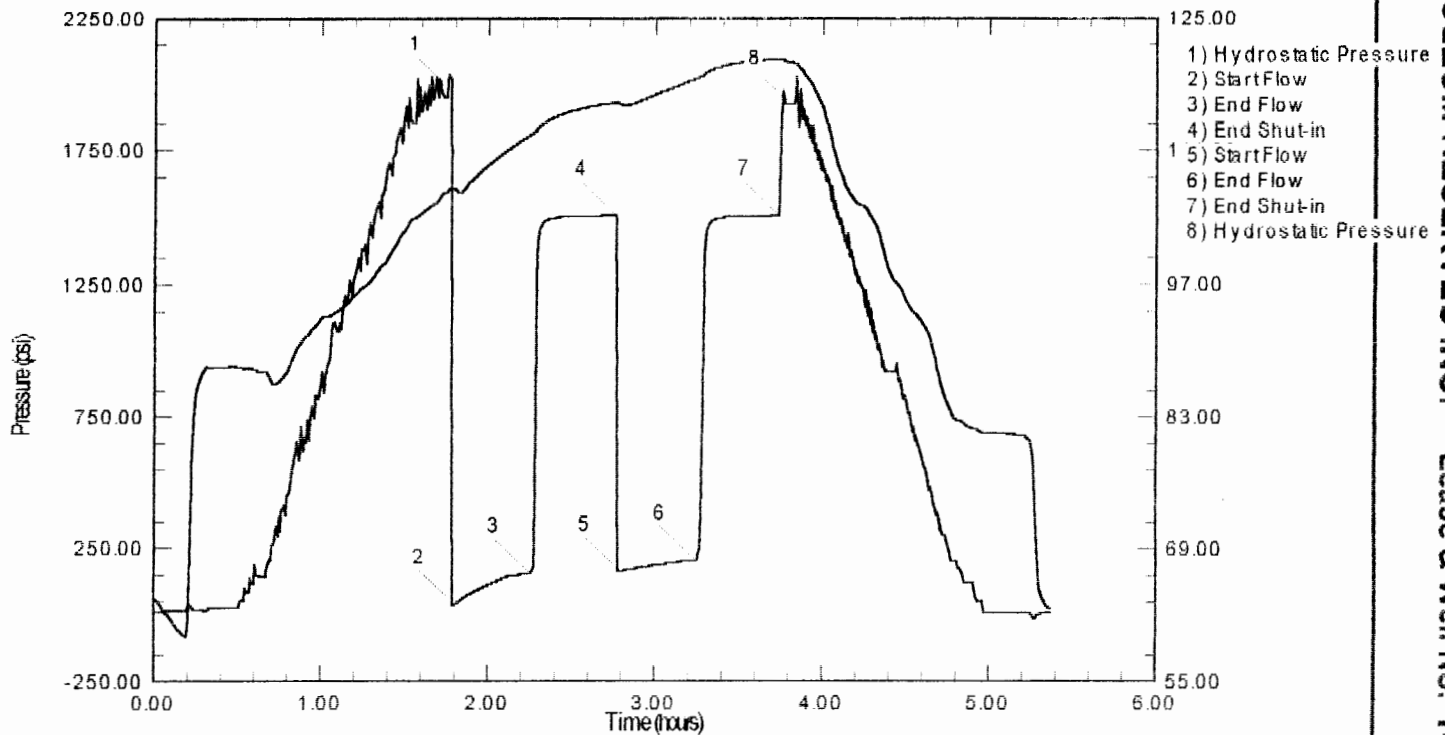
Test Date March 30, 2001

County BARBER

Sec Town Range 31-31S-12W

Field

Report Number 12071



Field Reading

(1)	Initial Hydrostatic Pressure	1978
(2)	Initial Flow Pressure	41
(3)	Final Initial Flow Pressure	159
(4)	Initial Shut-In Pressure	1507
(5)	Initial Final Flow Pressure	166
(6)	Final Flow Pressure	209
(7)	Final Shut-In Pressure	1506
(8)	Final Hydrostatic Pressure	1923

ELECTRONIC RECORDER DEPTH 3933 FT, RECORDER NUMBER 78225

Company: NATIONAL PETROLEUM RESERVES INC. Lease & Well No. RALEIGH #1 Test #: 1 Date: 3-30-2002 SEC. 31
 TWP. 31S RGE.12W

SUPERIOR TESTERS ENTERPRISES INC.

DRILL STEM TEST REPORT

GREAT BEND, KANSAS 67530 (316)792-6902

GENERAL INFORMATION

COMPANY NAME	NATIONAL PETROLEUM RESERVES INC,	LEASE AND WELL NUMBER	RALEIGH #1
TEST DATE	3/30/01	FORMATION TESTED	DRUM
SECTION-TOWN-RANGE	31-31S-12W	DRILL STEM TEST NUMBER	1
STATE	KANSAS	REPORT NUMBER	12071
COUNTY	BARBER	ELEVATION KELLY BUSHINGS	1568
ELEVATION GROUND LEVEL	1557	TESTING ENGINEER	GENE BUDIG
COMPANY REPRESENTATIVE	KEN LEBLANC		

TOOL SETTING INFORMATION

TEST INTERVAL (From)	3925	TOP PACKER DEPTH	3920
TEST INTERVAL (to)	3940	BOTTOM PACKER DEPTH	3925
ANCHOR LENGTH	15	NUMBER OF PACKERS	2
TOTAL DEPTH (ft)	3940	PACKER SIZE	6 3/4
		HOLE SIZE	7 7/8

FLOW TIMES

INITIAL OPEN

TOOL OPEN (from)	6:15
TOOL OPEN (to)	6:45
DURATION (min)	30

INITIAL SHUT IN

TOOL CLOSED (from)	6:45
TOOL CLOSED (to)	7:15
DURATION (min.)	30

FINAL OPEN

TOOL OPEN (from)	7:15
TOOL OPEN (to)	7:45
DURATION (min.)	30

FINAL SHUT-IN

TOOL CLOSED (from)	7:45
TOOL CLOSED (to)	8:15
DURATION (min)	30

PRESSURE READINGS

INITIAL HYDROSTATIC	1978
INITIAL FLOW	41
FINAL INITIAL FLOW	159
INITIAL SHUT-IN	1507
INITIAL FINAL FLOW	166
FINAL FLOW	209
FINAL SHUT-IN	1506
FINAL HYDROSTATIC	1923
MAXIMUM TEMPERATURE	120
TOP RECORDER DEPTH	3933
RECORDER NUMBER	78225
BOTTOM RECORDER DEPTH	3937
RECORDER NUMBER	5463

INITIAL BLOW

FAIR BLOW BUILT TO 11 INCHES INTO THE WATER

FINAL BLOW

WEAK BUILDING BLOW BUILT TO 6 INCHES INTO THE WATER

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

SUPERIOR TESTERS ENTERPRISES INC.

DRILL STEM TEST REPORT

GREAT BEND, KANSAS 67530 (316)792-6902

WELL INFORMATION

DRILLING CONTRACTOR **STERLING DRILLING COMPANY INC.**

DRILL PIPE LENGTH **3651**

DRILL COLLAR LENGTH **248**

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 **9.2**

WEIGHT PIPE I.D. **2.25**

VISCOSITY **52**

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

WATER LOSS **9.6**

CHLORIDES-PITS **8000**

CHLORIDES-DST **26000**

FEET OF RECOVERY		RECOVERY DESCRIPTION	% GAS	% OIL	% MUD	% WATER
1)	375	SLIGHTLY MUDDY WATER				
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

Date 3-30-02 Location 300' FW 370' FW NE 1/4 313^{5-12W} Elevation 1568 KB County Barber

Company National Petroleum Reserves Inc. Number of Copies 5

Charts Mailed to 250 North Rock Road Suite 130 Wichita Kansas 67206

Drilling Contractor Steeling Drilling Rig #4

Length Drill Pipe 3651 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 248 I.D. Drill Collars 2.25 Tool Joint Size 4 1/2" X 1 1/2"

Top Packer Depth 3920 Bottom Packer Depth 3925 Number of Packers 2 Packer Size 6 3/4

TESTED FROM 3925 TO 3940 ANCHOR LENGTH 15 TOTAL DEPTH 3940 Hole Size 7 7/8

LEASE & WELL NO. RALEIGH #1 FORMATION TESTED Drum TEST NO. 1

Mud Weight 9.4 Viscosity 52 Water Loss 9.4 Chlorides - Pits 8000 D.S.T. 26000

Maximum Temp. 120 °F Initial Hydrostatic Pressure (A) 1978 P.S.I. Final Hydrostatic Pressure (H) 1922 P.S.I.

Tool Open I.F.P. from 8:15 A.m to 8:45 A.m 30 min

Tool Closed I.C.I.P. from 8:45 A.m to 8:15 A.m 30 min

Tool Open F.F.P. from 8:15 A.m to 8:45 A.m 30 min

Tool Closed F.C.I.P. from 7:45 A.m to 8:15 A.m 30 min

Initial Blow FAIR blow built to 11 inches in to the water

Final Blow WEAK building blow built to 6 inches into the water

Total Feet Recovered 375 Gravity of Oil _____ Corrected _____

375 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 YES Safety Joint YES Extra Packer NONE Straddle NONE Hook Wall NONE

Top Recorder No. 78225 Clock No. Electronic Depth 39-33 Cir. Sub NONE Sampler NONE

Bottom Recorder No. 3463 Clock No. 47441 Depth 3927 Insurance NONE

Price of Job _____

Tool Operator Steve Smith

Approved By _____

N2 12071

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

State KANSAS

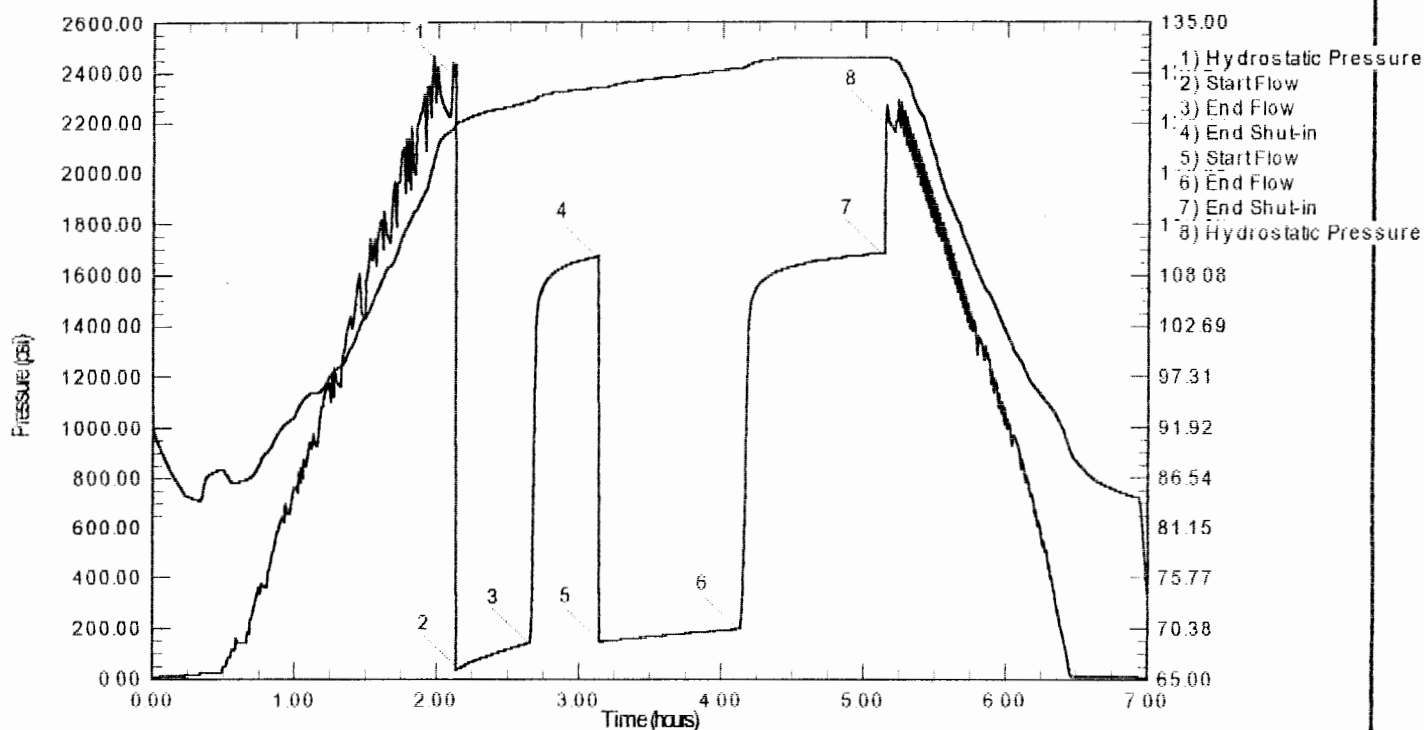
Test Date April 1, 2002

County BARBER

Sec Town Range 31-31S12W

Field

Report Number 12072



Field Reading

(1)	Initial Hydrostatic Pressure	2380
(2)	Initial Flow Pressure	41
(3)	Final Initial Flow Pressure	142
(4)	Initial Shut-In Pressure	1672
(5)	Initial Final Flow Pressure	147
(6)	Final Flow Pressure	199
(7)	Final Shut-In Pressure	1684
(8)	Final Hydrostatic Pressure	2195

ELECTRONIC RECORDER DEPTH 4540 FT, RECORDER NUMBER 78225

SUPERIOR TESTERS ENTERPRISES INC.

DRILL STEM TEST REPORT

GREAT BEND, KANSAS 67530 (316)792-6902

GENERAL INFORMATION

COMPANY NAME	NATIONAL PETROLEUM RESERVES INC.	LEASE AND WELL NUMBER	RALEIGH #1
TEST DATE	4/1/02	FORMATION TESTED	SIMPSON SAND]
SECTION-TOWN-RANGE	31-31S12W	DRILL STEM TEST NUMBER	2
STATE	KANSAS	REPORT NUMBER	12072
COUNTY	BARBER	ELEVATION KELLY BUSHINGS	1568
ELEVATION GROUND LEVEL	1557	TESTING ENGINEER	GENE BUDIG
COMPANY REPRESENTATIVE	KEN LEBLANC		

TOOL SETTING INFORMATION

TEST INTERVAL (From)	4536	TOP PACKER DEPTH	4531-4536
TEST INTERVAL (to)	4561	BOTTOM PACKER DEPTH	4561
ANCHOR LENGTH	25	NUMBER OF PACKERS	2
TOTAL DEPTH (ft)	4691	PACKER SIZE	6 3/4
		HOLE SIZE	7 7/8

FLOW TIMES

INITIAL OPEN

TOOL OPEN (from) **8:45**
TOOL OPEN (to) **9:15**
DURATION (min.) **30**

INITIAL SHUT-IN

TOOL CLOSED (from) **9:15**
TOOL CLOSED (to) **9:45**
DURATION (min.) **30**

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 **2380**
INITIAL FLOW **41**
FINAL INITIAL FLOW **142**
INITIAL SHUT-IN **1672**
INITIAL FINAL FLOW **147**
FINAL FLOW **199**
FINAL SHUT-IN **1684**
FINAL HYDROSTATIC **2195**

MAXIMUM TEMPERATURE **131**

TOP RECORDER DEPTH **4540**
RECORDER NUMBER **78225**
BOTTOM RECORDER DEPTH **4552**
RECORDER NUMBER **5463**

INITIAL BLOW

WEAK BUILDING BLOW BUILT TO 7 INCHES INTO THE WATER

FINAL BLOW

WEAK BUILDING BLOW BUILT TO 10 INCHES INTO THE WATER

EXTRA EQUIPMENT

JARS	NO	EXTRA PACKER (3RD)	YES
SAFETY JOINT	YES	EXTRA PACKER (4TH)	NO
ELECTRONIC RECORDER	YES	STRADDLE	YES
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 **STERLING DRILLING RIG #4**

DRILL PIPE LENGTH **4226**

DRILL PIPE I.D. **3.8**

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

DRILL COLLAR LENGTH **248**

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 **9.5+**

VISCOSITY **50**

WATER LOSS **10.4**

CHLORIDES-PITS **6000**

CHLORIDES DST **68000**

FEET OF RECOVERY		RECOVERY DESCRIPTION	% GAS	% OIL	% MUD	% WATER
1)	360	SLIGHTLY MUDDY WATER CHLORIDES 68000				
2)		THERE WAS A VERY SLIGHT SHOW OF OIL ON THE TOP OF THE WATER				
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

Date 04-01-2002 Location NE14 31-35-12W Elevation 1568 K.B. County Barber

Company National Petroleum Reserves Inc. Number of Copies 5

Charts Mailed to 250 North Rock Road Suite 130 Wichita Kansas 67206

Drilling Contractor Steelwing Drilling Rig #4

Length Drill Pipe 4226 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 248 I.D. Drill Collars 2.225 Tool Joint Size 4 1/2" X. H.

Top Packer Depth 4531-4536 Bottom Packer Depth 4561 Number of Packers 2 Packer Size 6 3/4"

TESTED FROM 4536 TO 4561 ANCHOR LENGTH 25 TOTAL DEPTH 4691 Hole Size 7 7/8

LEASE & WELL NO. RALEIGH #1 FORMATION TESTED Simpson Sand TEST NO. C

Mud Weight 9.52 Viscosity 50 Water Loss 10.4 Chlorides - Pits 6000 D.S.T. 268000

Maximum Temp. 131 °F Initial Hydrostatic Pressure (A) 2380 P.S.I. Final Hydrostatic Pressure (H) 2195 P.S.I.

Tool Open I.F.P. from 8:45 P.m. to 9:15 P.m. 30 min

Tool Closed I.C.I.P. from 9:15 P.m. to 9:45 P.m. 30 min

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

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

Initial Blow WEAK building blow built to 7 inches into the water

Final Blow WEAK building blow built to 10 inches into the water

Total Feet Recovered 360 Gravity of Oil _____ Corrected _____

360 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 _____

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

Remarks _____

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

Top Recorder No. 78225 Clock No. Electronic Depth 4540 Cir. Sub NONE Sampler NONE

Bottom Recorder No. 5463 Clock No. 47441 Depth 4552 Insurance NONE

Price of Job _____

Tool Operator Gene Ludwig

Approved By _____

NE 12072

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SUPERIOR TESTERS ENTERPRISES INC.

Great Bend, Kansas

CHART DATA

(316) 792-6902

State KANSAS

Test Date April 2, 2002

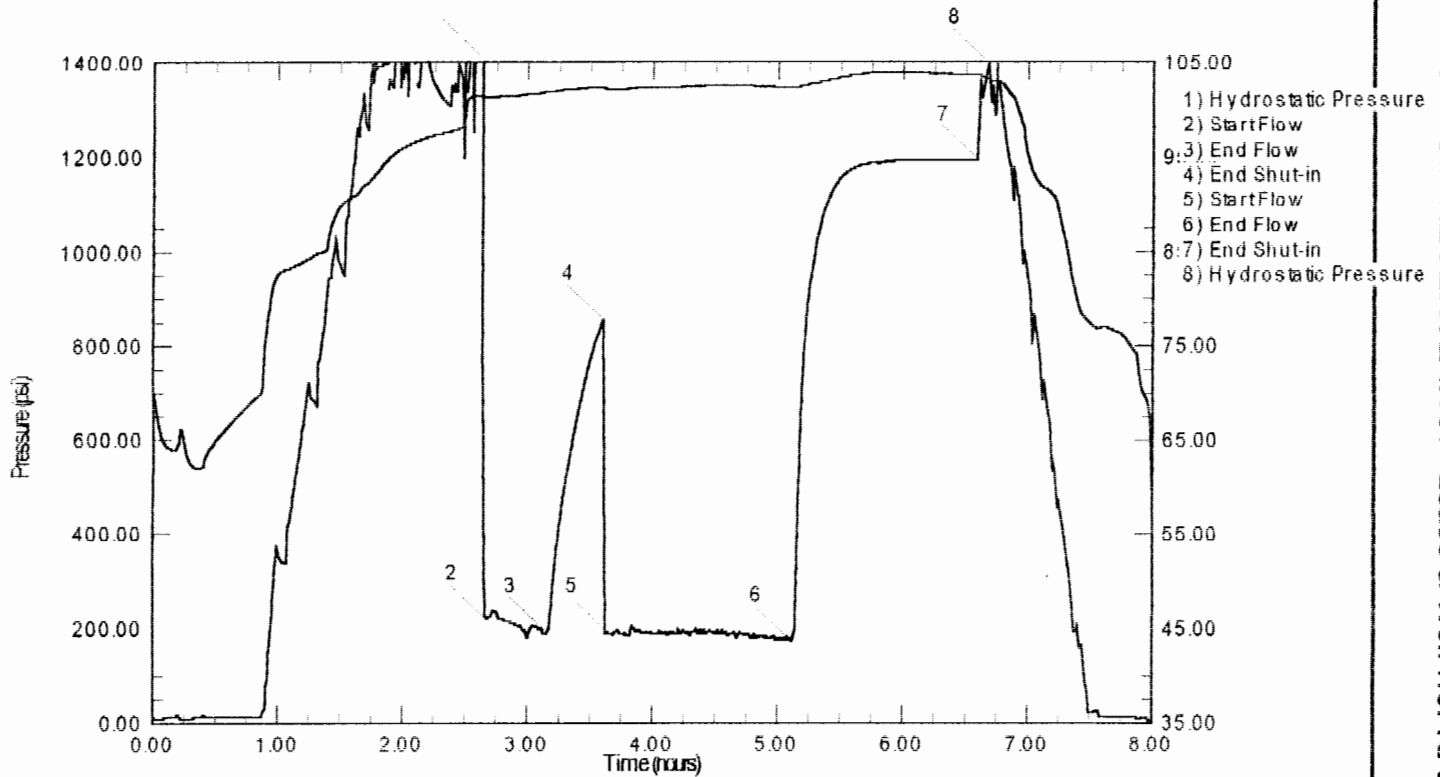
County BARBER

Sec Town Range 31-31S-12W

Field

Report Number 12073

Company: NATIONAL PETROLEUM RESERVE INC. Lease & Well No. RALEIGH #1 Test #: 3 Date: 04-02-2002 SEC. 31
TWP. 31S RGE. 12W



Field Reading

(1)	Initial Hydrostatic Pressure	1420
(2)	Initial Flow Pressure	220
(3)	Final Initial Flow Pressure	194
(4)	Initial Shut-In Pressure	856
(5)	Initial Final Flow Pressure	194
(6)	Final Flow Pressure	173
(7)	Final Shut-In Pressure	1194
(8)	Final Hydrostatic Pressure	1399

ELECTRONIC RECORDER DEPTH 2805 FT, RECORDER NUMBER 78225

SUPERIOR TESTERS ENTERPRISES INC.

DRILL STEM TEST REPORT

GREAT BEND, KANSAS 67530 (316)792-6902

GENERAL INFORMATION

COMPANY NAME	NATIONAL PETROLEUM RESERVES INC.	LEASE AND WELL NUMBER	RALEIGH #1
TEST DATE	4/2/02	FORMATION TESTED	TARKIO SAND
SECTION-TOWN-RANGE	31-31S-12W	DRILL STEM TEST NUMBER	3
STATE	KANSAS	REPORT NUMBER	12073
COUNTY	BARBER	ELEVATION KELLY BUSHINGS	1568
ELEVATION GROUND LEVEL	1557	TESTING ENGINEER	GENE BUDIG
COMPANY REPRESENTATIVE	KEN LEBLANC		

TOOL SETTING INFORMATION

TEST INTERVAL (From)	2801	TOP PACKER DEPTH	2896-2801
TEST INTERVAL (to)	2837	BOTTOM PACKER DEPTH	2837
ANCHOR LENGTH	36	NUMBER OF PACKERS	3
TOTAL DEPTH (ft)	4691	PACKER SIZE	6 3/4
		HOLE SIZE	7 7/8

FLOW TIMES

INITIAL OPEN

TOOL OPEN (from)	4:30
TOOL OPEN (to)	5:00
DURATION (min.)	30

INITIAL SHUT-IN

TOOL CLOSED (from)	5:00
TOOL CLOSED (to)	5:30
DURATION (min.)	30

FINAL OPEN

TOOL OPEN (from)	5:30
TOOL OPEN (to)	7:00
DURATION (min.)	90

FINAL SHUT-IN

TOOL CLOSED (from)	7:00
TOOL CLOSED (to)	8:30
DURATION (min.)	90

PRESSURE READINGS

INITIAL HYDROSTATIC	1420
INITIAL FLOW	220
FINAL INITIAL FLOW	194
INITIAL SHUT-IN	856
INITIAL FINAL FLOW	194
FINAL FLOW	173
FINAL SHUT-IN	1194
FINAL HYDROSTATIC	1399
MAXIMUM TEMPERATURE	104
TOP RECORDER DEPTH	2805
RECORDER NUMBER	78225
BOTTOM RECORDER DEPTH	2840
RECORDER NUMBER	5463

INITIAL BLOW

WEAK BUILDING BLOW BUILT TO 10 INCHES INTO THE WATER

FINAL BLOW

**GOOD BLOW BUILT TO THE BOTTOM OF A 5 GALLON BUCKET IN 1 MINUTE
AND DECREASED BUILT AND DECREASED THROUGH OUT THE TEST WITH
GAS TO SURFACE IN 55 MINUTES ON THE 2ND OPENING-SEE GAS FLOW**

EXTRA EQUIPMENT

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

SUPERIOR TESTERS ENTERPRISES INC.

DRILL STEM TEST REPORT

GREAT BEND, KANSAS 67530 (316)792-6902

WELL INFORMATION

DRILLING CONTRACTOR **STERLING DRILLING RIG #4**

DRILL PIPE LENGTH **2531**

DRILL PIPE I.D. **3.8**

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

DRILL COLLAR LENGTH **248**

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 **9.5+**

VISCOSITY **50**

WATER LOSS **10.4**

CHLORIDES-PITS **6000**

CHLORIDES-DST

FEET OF RECOVERY		RECOVERY DECRPTION	% GAS	% OIL	% MUD	% WATER
1)	400	SLIGHTLY GAS CUT THICK HEAVY MUD				
2)						
3)						
4)						
5)						
6)						
7)						
8)						
9)						
10)						
11)						
12)						
13)						
14)						
15)						
		TOTAL RECOVERY				

COMMENTS

HOOKED AT APPROX. 18 FEET ABOVE TEST POINT PACKERS DID NOT HOLD RESET THE
TOOL PACKERS WOULD STILL NOT HOLD PICKED UP DRILLING MUD EACH TIME GOT HOOK TO
HOLD 3 FEET ABOVE TEST POINT

#

SUPERIOR TESTERS ENTERPRISES INC.

GREAT BEND, KANSAS

SUPERPOSITION ANALYSIS

(316) 792-6902

2ND SHUT-IN

State KANSAS

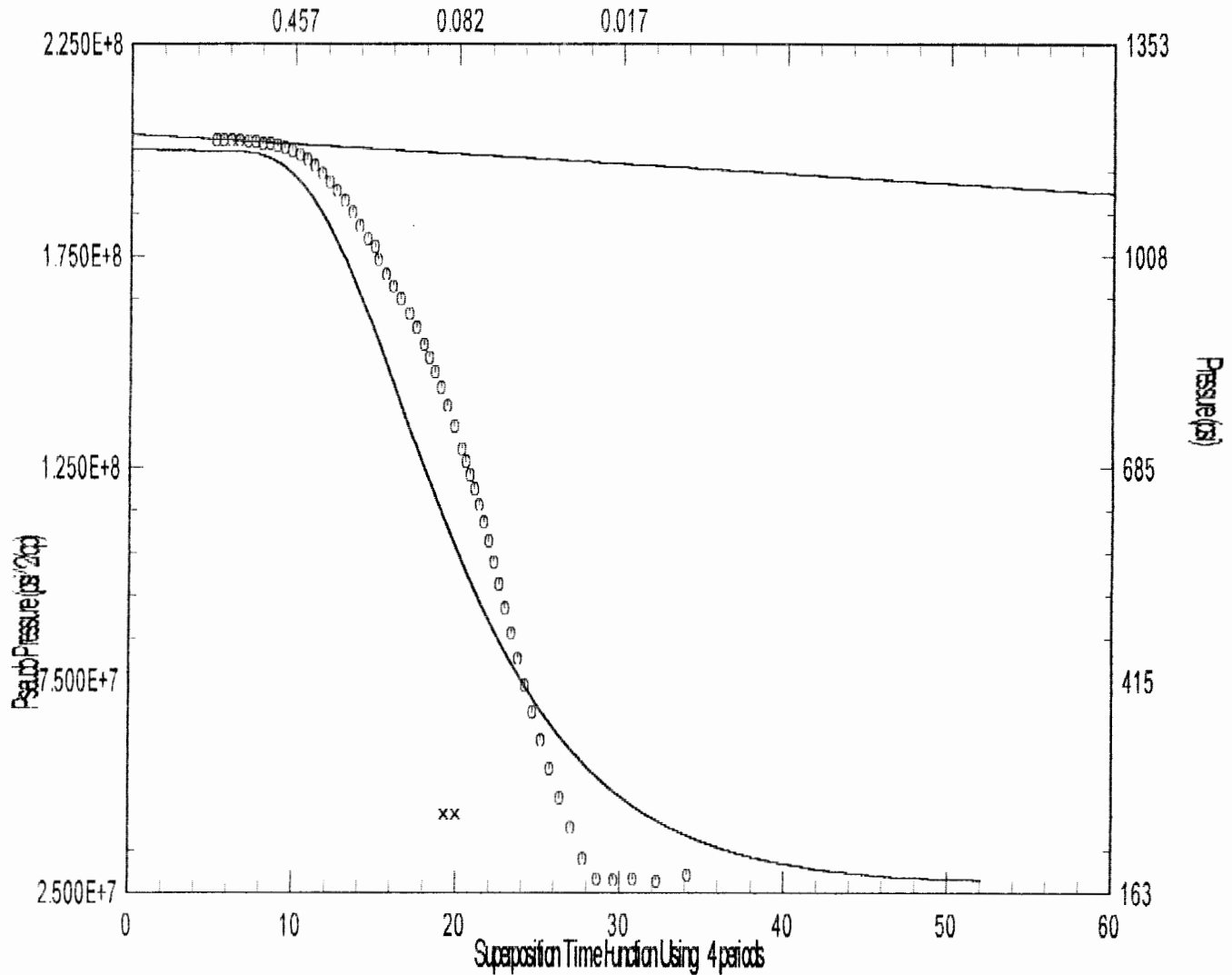
Test Date 4/2/02

County BARBER

Sec Town Range 31-31S-12W

Field

Report Number 12073



MODEL RESULTS

Constant Storage
C1 : 4.920E-5 bbl/psi

Skin Model
Skin : 251.00

Homogeneous
k : 4.420 md
Est Pi: 1177.8 psi

No Boundaries

h : 4 ft
mu : 0.057 cp
phi : 20.0%
ct : 1.272E-03 1/psi
rw : 6.417 ft
BHT : 104 F
FVF : 0.69

Field :	Date Printed:	04/02/02 10:42:56
County or Parish :	Analysis Period :	End Flow - End Shut-in
State :	Comment :	Line #

Superposition Slope -> m'	-2.295295E+5
Horner Slope -> m	-3.465895E+6
Intercept	2.036E+8
P(dt=1 hr)	2.021E+8
Pwf	2.723E+7
R Sqr	0.7273

Intercept (psi)	1202.721
k (md)	1.00561
kh (md-ft)	4.02244
k/u (md/cp)	17.73561
kh/uB (md-ft/cp)	70.94246
Skin	58.0746
DP Skin	1020.5147
Total DP	1029.0480
Percent DP	99.17%

Radius Invest (ft)	10
Radius Time (hrs)	1.48

Delta Q =	15
h (ft)=	4
mu (cp) =	0.0567
B (stb/scf) =	0.6933

First Point #	230
Second Point #	300
Start Real Time	0.693
End Real Time	1.482
Start SF Time	7.978

Superior Testers Enterprises, Inc.

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

(316) 792-6902

Date 04-02-2002 Location NE 1/4 31-31-12W Elevation 1568 K.B. County Brewer

Company National Petroleum Reserves Inc. Number of Copies 5

Charts Mailed to 250 North Rock Road Suite 130 Wichita Kansas 67206

Drilling Contractor Starline Drilling Rig # 4

Length Drill Pipe 2531 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 248 I.D. Drill Collars 2.25 Tool Joint Size 4 1/2" X.H.

Top Packer Depth 2876-2801 Bottom Packer Depth 2837 Number of Packers 2 Packer Size 6 3/4"

TESTED FROM 2801 TO 2837 ANCHOR LENGTH 36 TOTAL DEPTH 4691 Hole Size 7 7/8

LEASE & WELL NO. RALEIGH #1 FORMATION TESTED TARKIO SAND TEST NO. 3

Mud Weight 9.5 Viscosity 50 Water Loss 10.4 Chlorides - Pits 6000 D.S.T. _____

Maximum Temp. 104 °F Initial Hydrostatic Pressure (A) 1420 P.S.I. Final Hydrostatic Pressure (H) 1399 P.S.I.

Tool Open I.F.P. from 4:30 A.M. to 5:00 A.M. 30 min

Tool Closed I.C.I.P. from 5:00 A.M. to 5:30 A.M. 30 min

Tool Open F.F.P. from 5:30 A.M. to 7:00 A.M. 90 min

Tool Closed F.C.I.P. from 7:00 A.M. to 8:30 A.M. 90 min

Initial Blow WEAK building blow built to 10 inches into the water

Final Blow Good blow bottom of the bucket in 1 minute decreased & Built through

Total Feet Recovered 400 with Gas to Surface in 55 min Gravity of Oil _____ Corrected

400 Feet of SLIGHTLY Gas cut heavy 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 NONE Safety Joint YES Extra Packer YES 30 Straddle YES Hook Wall YES

Top Recorder No. 78225 Clock No. Electric Depth 2805 Cir. Sub NONE Sampler YONE

Bottom Recorder No. 5463 Clock No. 4741 Depth 2840 Insurance NONE

Price of Job _____

Tool Operator Dave Bulig

Approved By _____

12073

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