

SWIFT FORMATION TESTERS

1309 VAN FLEET PHONE 793-5177

GREAT BEND, KANSAS 67530

DATE Dec 16, 90

COMPANY NATIONAL PETROLEUM RESERVES, INC.

ADDRESS 250 N. ROCK RD. # 340

LEASE SEWING WELL NO. 2 COUNTY STAFFORD

DEPTH 3868 TESTED FROM 3850 TO 3868 TEST NO. 1

TOOL JT. 9 1/2 XH SIZE HOLE 7 7/8 SIZE PACKER 6 3/4 MIS-RUN NO. _____

INITIAL HYD. 2047# FINAL HYD. 2030# SUCCESSFUL NO. _____

INITIAL SHUT-IN - HR. 30 MIN.: TOOL OPEN - HR. 45 MIN.: FINAL SHUT-IN - HR. 45 MIN.

INVOICES SENT TO: WICHITA, KS. 67206

INITIAL FLOW PERIOD 30 MINUTES

BLOW: GOOD THRU-OUT TEST

REMARKS: _____

RECOVERY: 20' MUD
3000' GAS

INITIAL SHUT-IN PRESSURE 84# INITIAL FLOW PRESSURE 50-50# FINAL FLOW PRESSURE 58-58#

FINAL SHUT-IN PRESSURE 227# FIELD ORDER NO. _____ PRICE OF JOB \$550.00

EXTRA EQUIPMENT _____ OPERATOR TIME _____

SWIFT FORMATION TESTERS

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.

APPROVED BY: Howell Crenshaw

OUR REPRESENTATIVE Jessie Cole

TICKET N^o 5492

SWIFT FORMATION TESTERS

1309 VAN FLEET

PHONE 793-5177

GREAT BEND, KANSAS

Date December 16, 1990

Test No. 1

Company National Petroleum Reserves, Inc

Test Ticket No. 5492 County Stafford Lease Sewing Well 2

Initial Shut-In - Hr. 30 Min. Tool Open - Hr. 45 Min. Final Shut-In - Hr. 45 Min.

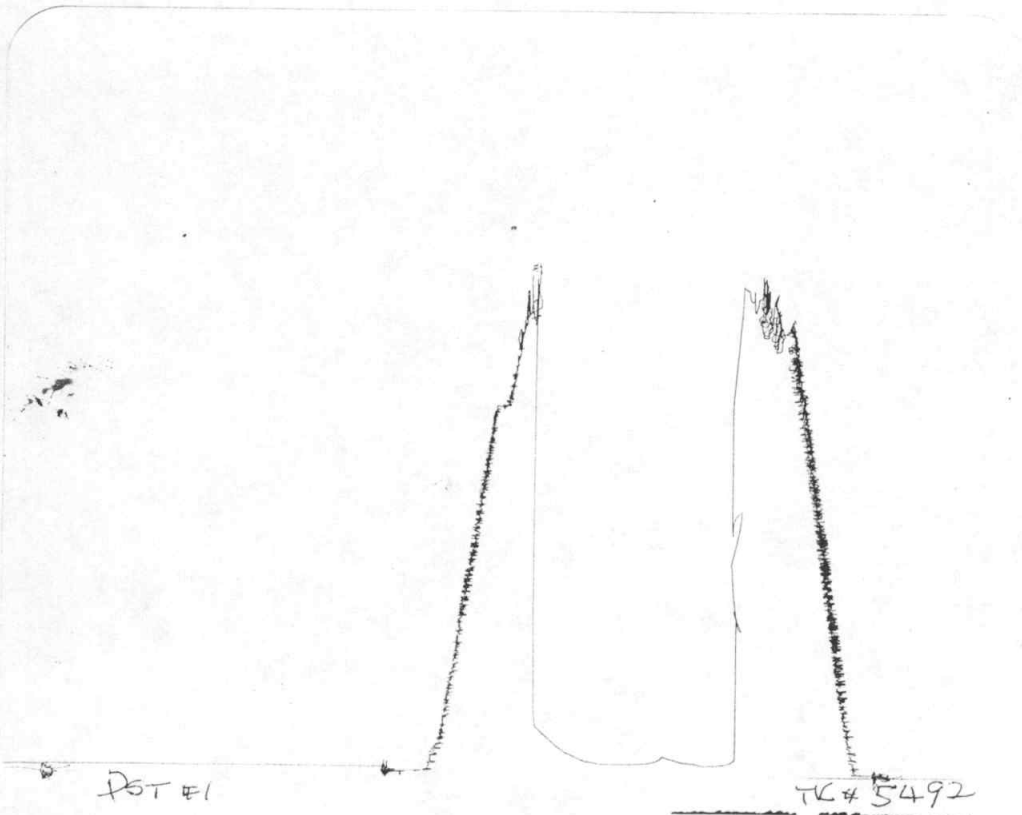
Interval Tested 3850 to 3868 Total Depth 3868

Blow: Good thru-out test 30 Minutes Initial Flow Period

Recovery and Remarks: 20" Mud
3000" Gas

Initial BHP: 84# Final BHP: 227# Initial FP: 50-50# Final FP: 58-58#

Tester Nelson Call Approved By: Howell Crenshaw



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GREAT BEND, KANSAS

Date December 16, 1990

Test No. 1

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Test Ticket No. 5492 County Stafford Lease Sewing Well 2

Initial Shut-In - Hr. 30 Min. Tool Open - Hr. 45 Min. Final Shut-In - Hr. 45 Min.

Interval Tested 3850 to 3868 Total Depth 3868

Blow: Good thru-out test 30 Minutes Initial Flow Period

Recovery and Remarks: 20" Mud

3000" Gas

Initial BHP: 84# Final BHP: 227# Initial FP: 50-50# Final FP: 58-58#

Tester Nelson Call Approved By: Howell Crenshaw



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GREAT BEND, KANSAS

Date December 16, 1990

Test No. 1

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Test Ticket No. 5492 County Stafford Lease Sewing Well 2

Initial Shut-In - Hr. 30 Min. Tool Open - Hr. 45 Min. Final Shut-In - Hr. 45 Min.

Interval Tested 3850 to 3868 Total Depth 3868

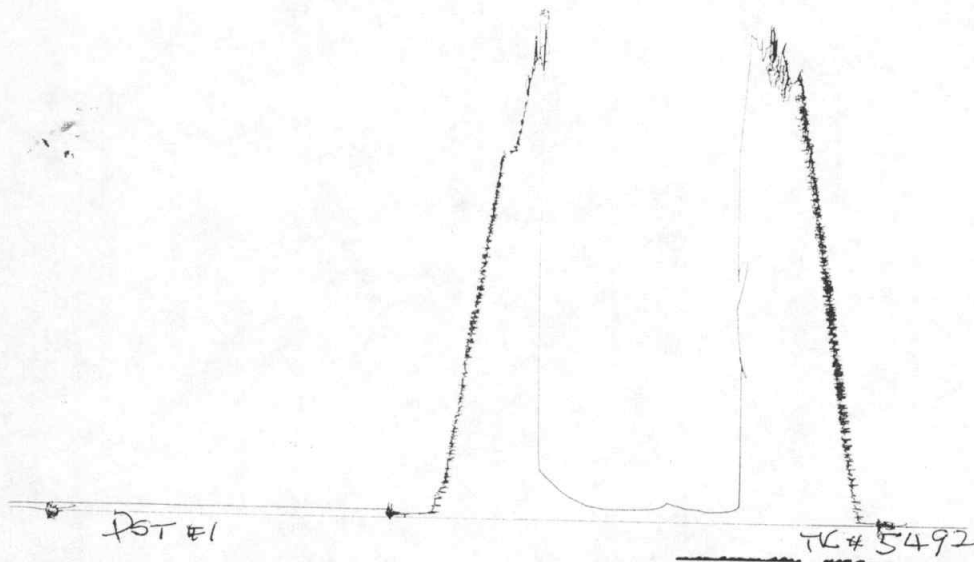
Blow: Good thru-out test 30 Minutes Initial Flow Period

Recovery and Remarks: 20° Mud

3000° Gas

Initial BHP: 84# Final BHP: 227# Initial FP: 50-50# Final FP: 58-58#

Tester Nelson Call Approved By: Howell Crenshaw



POINT	PRESSURE		PSI
	Field Reading	Office Reading	
(A) Initial Hydrostatic Mud	2047#		
(B) First Initial Flow Pressure	50#		
(C) First Final Flow Pressure	58#		
(D) Initial Closed-in Pressure	84#		
(E) Second Initial Flow Pressure	50#		
(F) Second Final Flow Pressure	58#		
(G) Final Closed-in Pressure	227#		
(H) Final Hydrostatic Mud	2030#		

SWIFT FORMATION TESTERS

1309 VAN FLEET

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GREAT BEND, KANSAS 67530

DATE Dec 17, 90

COMPANY NATIONAL PET RES. INC.

ADDRESS WICHITA KS.

LEASE SEWING WELL NO. 2 COUNTY STAFFORD

DEPTH 4118 TESTED FROM 4082 TO 4118 TEST NO. 2

TOOL JT. 4 1/2 XH SIZE HOLE 7 7/8 SIZE PACKER 6 3/4 MIS-RUN NO. _____

INITIAL HYD. 2182 # FINAL HYD. 2170 # SUCCESSFUL NO. _____

INITIAL SHUT-IN - HR. 30 MIN.: TOOL OPEN - HR. 45 MIN.: FINAL SHUT-IN - HR. 45 MIN.

INVOICES SENT TO: _____

INITIAL FLOW PERIOD 30 MINUTES

BLOW: Weak THRU-OUT 1st - FAIR TO GOOD 2nd 6' IN BUCKET

REMARKS: _____

RECOVERY: 30' MUD

120' GAS ABOVE FLOID

INITIAL SHUT-IN PRESSURE 336 # INITIAL FLOW PRESSURE 67 - N/A FINAL FLOW PRESSURE 67 - N/A

FINAL SHUT-IN PRESSURE 210 # FIELD ORDER NO. _____ PRICE OF JOB \$550.00

EXTRA EQUIPMENT _____ OPERATOR TIME _____

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APPROVED BY: Nowell Censhaw

OUR REPRESENTATIVE Jerson Call

TICKET N^o 5493

SWIFT FORMATION TESTERS

1309 VAN FLEET

PHONE 793-5177

GREAT BEND, KANSAS

Date December 17, 1990 Test No. 2

Company National Petroleum Reserves, Inc

Test Ticket No. 5493 County Stafford Lease Sewing Well 2

Initial Shut-In - Hr. 30 Min. Tool Open - Hr. 45 Min. Final Shut-In - Hr. 45 Min.

Interval Tested 4082 to 4118 Total Depth 4118

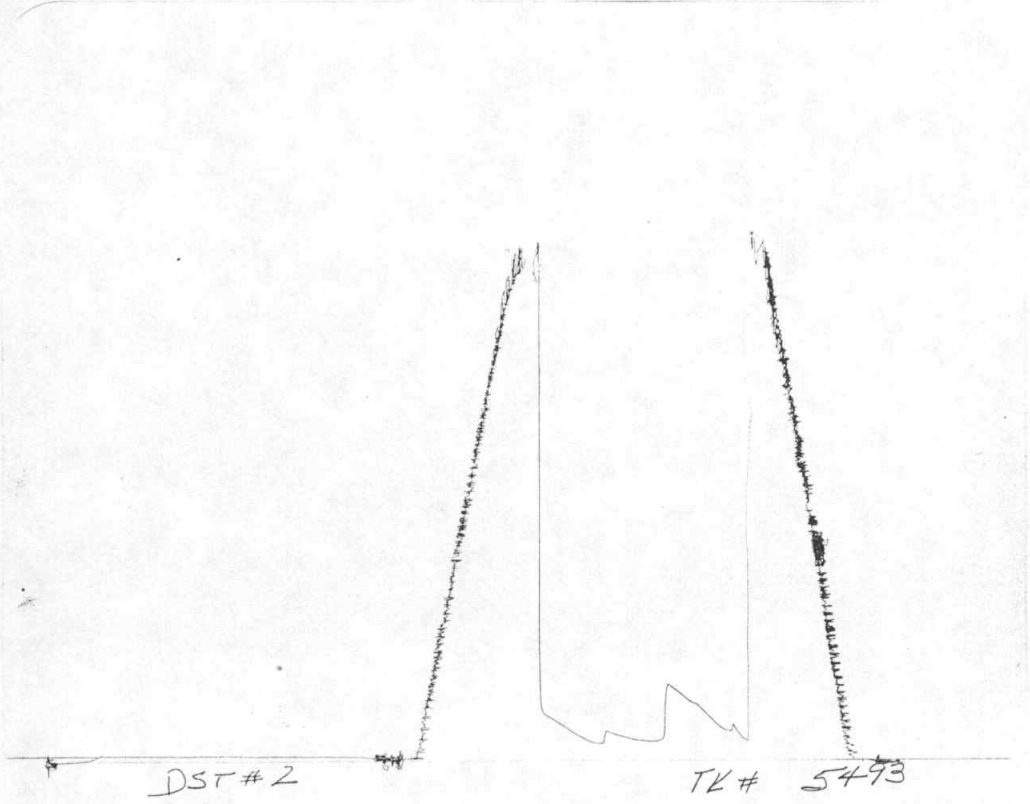
Blow: Weak thru-out 1st - Fair to good 2nd 6' in bucket 30 minutes Initial Flow Period

Recovery and Remarks: 30' Mud

120' Gas above fluid

Initial BHP: 336# Final BHP: 210# Initial FP: 67# - NA Final FP: 67# - NA

Tester Nelson Call Approved By: Howell Crumshaw



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GREAT BEND, KANSAS

Date December 17, 1990

Test No. 2

Company National Petroleum Reserves, Inc

Test Ticket No. 5493 County Stafford Lease Sewing Well 2

Initial Shut-In - Hr. 30 Min. Tool Open - Hr. 45 Min. Final Shut-In - Hr. 45 Min.

Interval Tested 4082 to 4118 Total Depth 4118

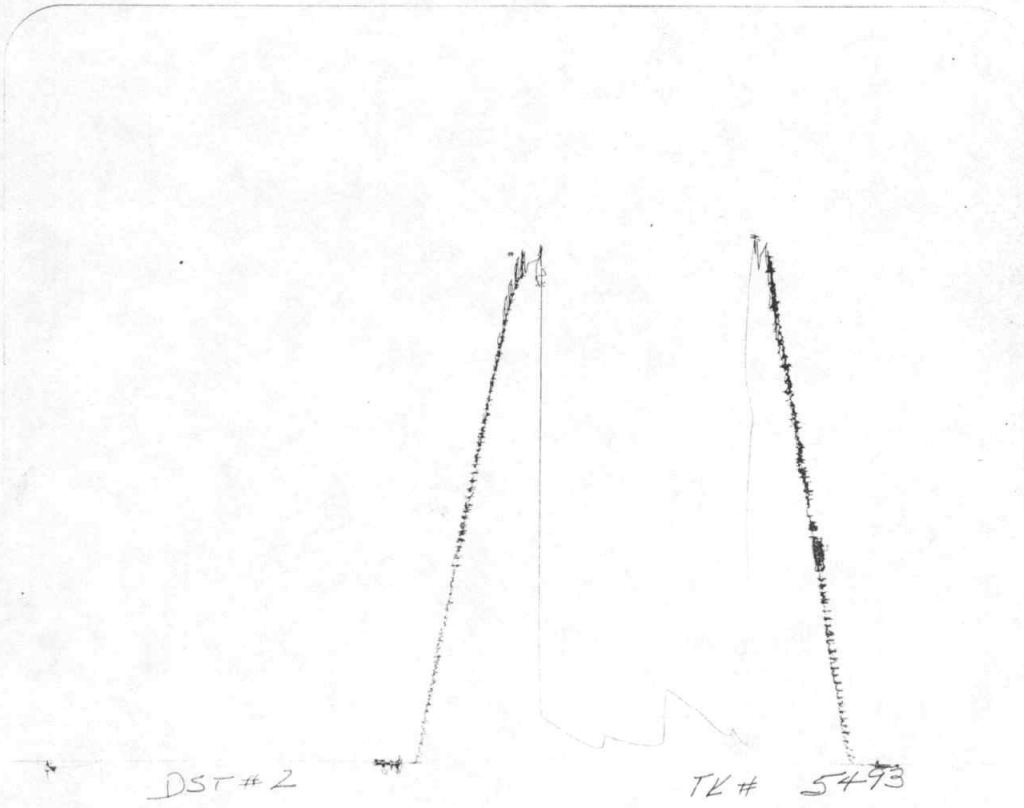
Blow: Weak thru-out 1st - Fair to good 2nd 6" in bucket 30 Minutes Initial Flow Period

Recovery and Remarks: 30" Mud

120" Gas above fluid

Initial BHP: 336# Final BHP: 210# Initial FP: 67# - NA Final FP: 67# - NA

Tester Nelson Call Approved By: Howell Greshaw



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GREAT BEND, KANSAS

Date December 17, 1990

Test No. 2

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Test Ticket No. 5493 County Stafford Lease Sewing Well 2

Initial Shut-In - Hr. 30 Min. Tool Open - Hr. 45 Min. Final Shut-In - Hr. 45 Min.

Interval Tested 4082 to 4118 Total Depth 4118

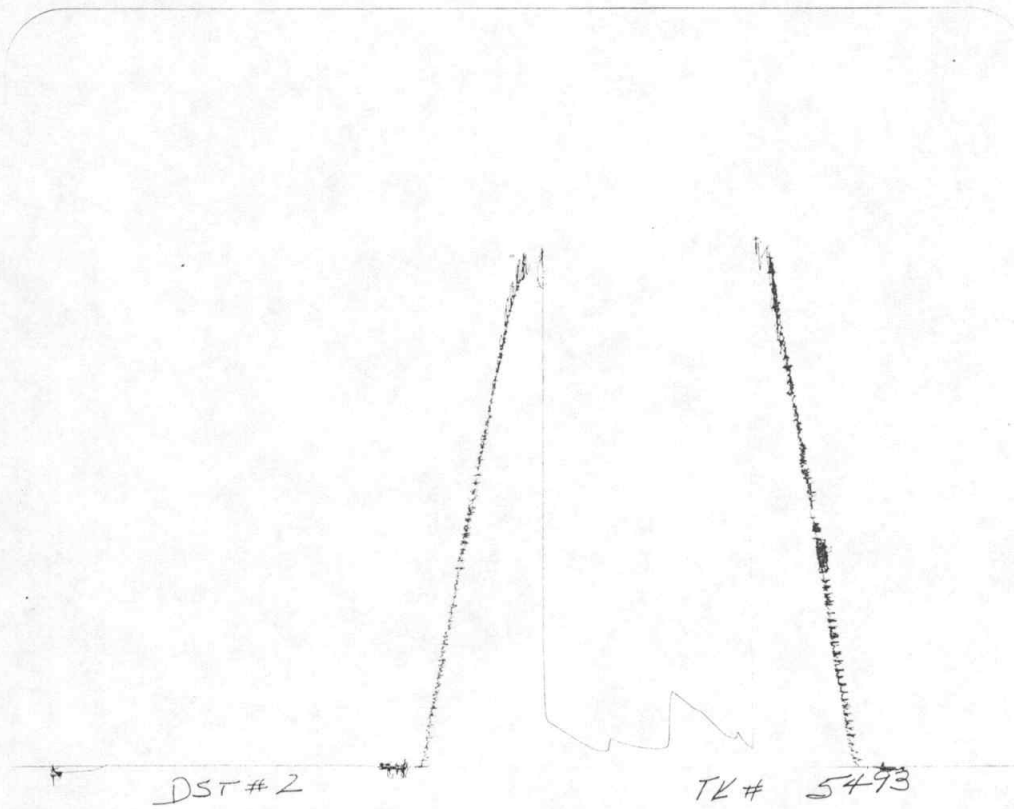
Blow: Weak thru-out 1st - Fair to good 2nd 6' in bucket 30 Minutes Initial Flow Period

Recovery and Remarks: 30' Mud

120' Gas above fluid

Initial BHP: 336# Final BHP: 210# Initial FP: 67# - NA Final FP: 67# - NA

Tester Nelson Call Approved By: Howell Grenshaw



POINT	PRESSURE		PSI
	Field Reading	Office Reading	
(A) Initial Hydrostatic Mud	2182#		PSI
(B) First Initial Flow Pressure	67#		PSI
(C) First Final Flow Pressure	67#		PSI
(D) Initial Closed-in Pressure	336#		PSI
(E) Second Initial Flow Pressure	NA		PSI
(F) Second Final Flow Pressure	NA		PSI
(G) Final Closed-in Pressure	210#		PSI
(H) Final Hydrostatic Mud	2170#		PSI

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GREAT BEND, KANSAS 67530

DATE Dec 18, 90

COMPANY NATIONAL PET RESERVES, INC.

ADDRESS WICHITA KANSAS

LEASE SEWING WELL NO. 2 COUNTY STAFFORD

DEPTH 4270 TESTED FROM 4172 TO 4270 TEST NO. 3

TOOL JT. 4 1/2 x H SIZE HOLE 7 7/8 SIZE PACKER 6 3/4 MIS-RUN NO. _____

INITIAL HYD. 2308 FINAL HYD. 2290 SUCCESSFUL NO. _____

INITIAL SHUT-IN - HR. 30 MIN.: TOOL OPEN - HR. 45 MIN.: FINAL SHUT-IN - HR. 45 MIN.

INVOICES SENT TO: _____

INITIAL FLOW PERIOD 30 MINUTES

BLOW: FAIR STEADY THRU-OUT TEST

REMARKS: _____

RECOVERY: 60' MUD w/ FEW SPOTS OIL ON TOP
120' GAS

INITIAL SHUT-IN PRESSURE 185* INITIAL FLOW PRESSURE 92-101# FINAL FLOW PRESSURE 109-117#

FINAL SHUT-IN PRESSURE 209# FIELD ORDER NO. _____ PRICE OF JOB \$ 550⁰⁰

EXTRA EQUIPMENT _____ OPERATOR TIME _____

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APPROVED BY: Howell Crawshaw

OUR REPRESENTATIVE [Signature]

TICKET N^o 5494

SWIFT FORMATION TESTERS

1309 VAN FLEET

PHONE 793-5177

GREAT BEND, KANSAS

Date December 18, 1990

Test No. 3

Company National Petroleum Reserves, Inc

Test Ticket No. 5494 County Stafford Lease Sewing Well 2

Initial Shut-In - Hr. 30 Min. Tool Open - Hr. 45 Min. Final Shut-In - Hr. 45 Min.

Interval Tested 4172 to 4270 Total Depth 4270

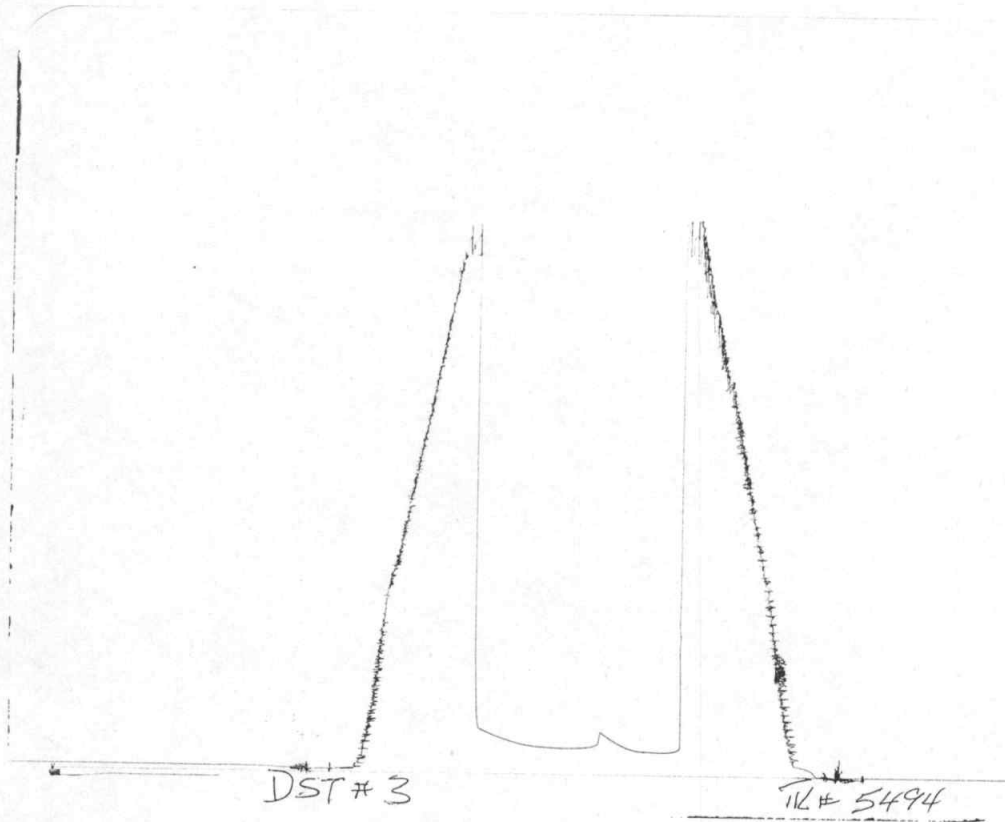
Blow: Fair steady thru-out test 30 Minutes Initial Flow Period

Recovery and Remarks: 60° Mud w/few spots oil on top

120° Gas

Initial BHP: 185# Final BHP: 209# Initial FP: 92-101# Final FP: 109-117#

Tester Nelson Call Approved By: Howell Crenshaw



SWIFT FORMATION TESTERS

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Date December 18, 1990

Test No. 3

Company National Petroleum Reserves, Inc

Test Ticket No. 5494 County Stafford Lease Sewing Well 2

Initial Shut-In - Hr. 30 Min. Tool Open - Hr. 45 Min. Final Shut-In - Hr. 45 Min.

Interval Tested 4172 to 4270 Total Depth 4270

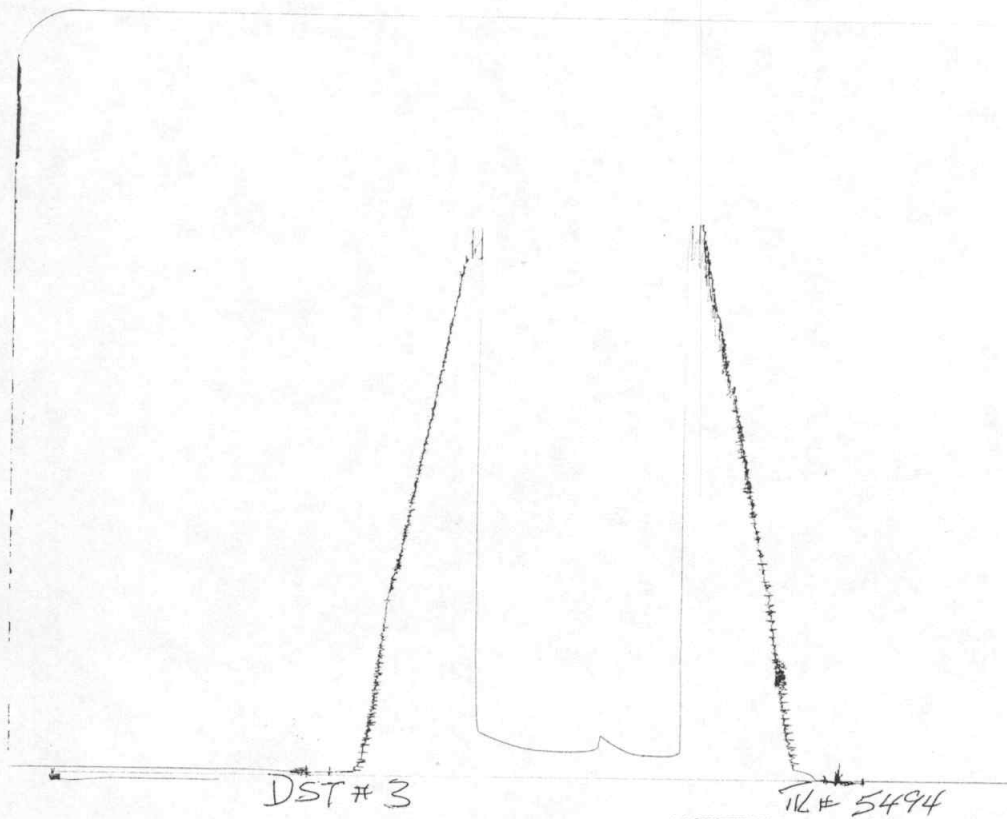
Blow: Fair steady thru-out test 30 Minutes Initial Flow Period

Recovery and Remarks: 60° Mud w/few spots oil on top

120° Gas

Initial BHP: 185# Final BHP: 209# Initial FP: 92-101# Final FP: 109-117#

Tester Nelson Call Approved By: Howell Crenshaw



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Date December 18, 1990

Test No. 3

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Test Ticket No. 5494 County Stafford Lease Sewing Well 2

Initial Shut-In - Hr. 30 Min. Tool Open - Hr. 45 Min. Final Shut-In - Hr. 45 Min.

Interval Tested 4172 to 4270 Total Depth 4270

Blow: Fair steady thru-out test 30 Minutes Initial Flow Period

Recovery and Remarks: 60° Mud w/few spots oil on top

120° Gas

Initial BHP: 185# Final BHP: 209# Initial FP: 92-101# Final FP: 109-117#

Tester Nelson Call Approved By: Howell Crenshaw



POINT	PRESSURE		PSI
	Field Reading	Office Reading	
(A) Initial Hydrostatic Mud	2308#		PSI
(B) First Initial Flow Pressure	92#		PSI
(C) First Final Flow Pressure	109#		PSI
(D) Initial Closed-in Pressure	185#		PSI
(E) Second Initial Flow Pressure	101#		PSI
(F) Second Final Flow Pressure	117#		PSI
(G) Final Closed-in Pressure	209#		PSI
(H) Final Hydrostatic Mud	2290#		PSI

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GREAT BEND, KANSAS 67530

DATE Dec. 20, '90

COMPANY HATI PET. RES. INC.

ADDRESS WICHITA Ks.

LEASE SEWING WELL NO. 2 COUNTY STAFFORD

DEPTH 4362 TESTED FROM 4290 TO 4362 TEST NO. 4

TOOL JT. 4 1/2 XH SIZE HOLE 7 7/8 SIZE PACKER 6 3/4 MIS-RUN NO. _____

INITIAL HYD. 2308# FINAL HYD. 2291# SUCCESSFUL NO. _____

INITIAL SHUT-IN - 30 HR. MIN.: TOOL OPEN - 45 HR. MIN.: FINAL SHUT-IN - 45 HR. MIN.

INVOICES SENT TO: _____

INITIAL FLOW PERIOD 30 MINUTES

BLOW: WEAK slowly INCREASING TO FAIR.

REMARKS: _____

RECOVERY: 200' MUD w/OIL SPOTS

INITIAL SHUT-IN PRESSURE 1394# INITIAL FLOW PRESSURE 57-82" FINAL FLOW PRESSURE 107-133#

FINAL SHUT-IN PRESSURE 1411# FIELD ORDER NO. _____ PRICE OF JOB \$ 550.00

EXTRA EQUIPMENT _____ OPERATOR TIME _____

SWIFT FORMATION TESTERS

APPROVED BY: Hawill Crenshaw

OUR REPRESENTATIVE Jesse Cole

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TICKET N^o 5495

SWIFT FORMATION TESTERS

1309 VAN FLEET

PHONE 793-5177

GREAT BEND, KANSAS

Date December 20, 1990

Test No. 4

Company National Petroleum Reserves, Inc

Test Ticket No. 5495 County Stafford Lease Sewing Well 2

Initial Shut-In - Hr. 30 Min. Tool Open - Hr. 45 Min. Final Shut-In - Hr. 45 Min.

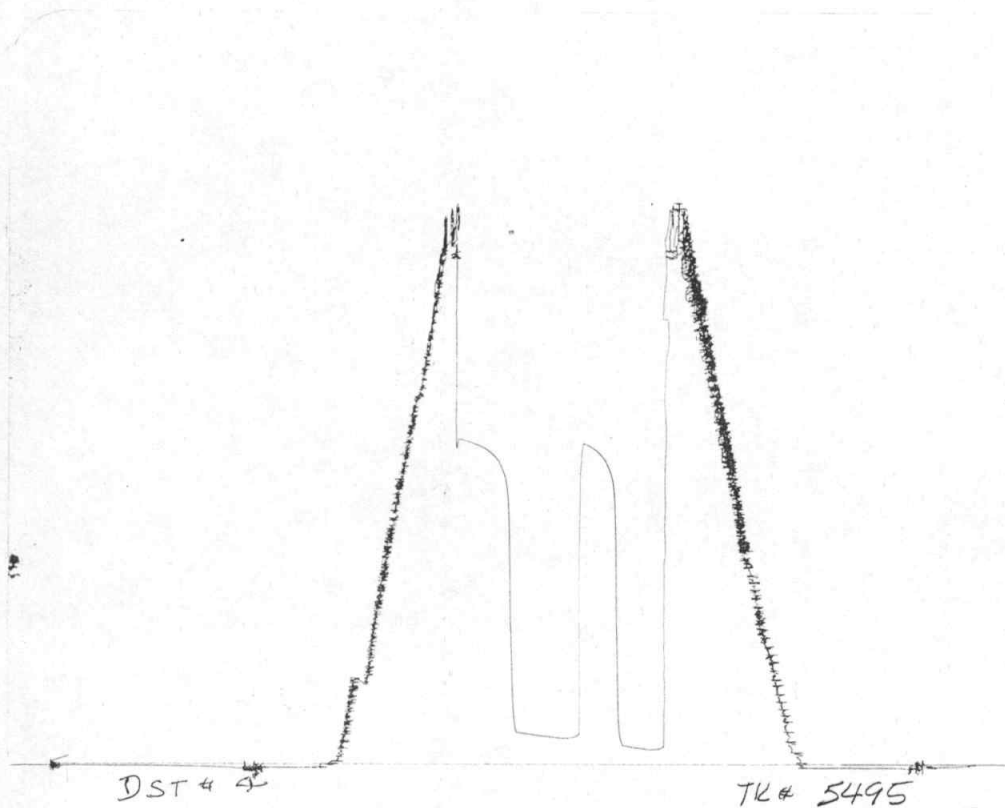
Interval Tested 4290 to 4362 Total Depth 4362

Blow: Weak slowly increasing to fair 30 Minutes Initial Flow Period

Recovery and Remarks: 200' Mud w/oil spots

Initial BHP: 1394# Final BHP: 1411# Initial FP: 57-82# Final FP: 107-133#

Tester: Nelson Call Approved By: Howell Crenshaw



SWIFT FORMATION TESTERS

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GREAT BEND, KANSAS

Date December 20, 1990

Test No. 4

Company National Petroleum Reserves, Inc

Test Ticket No. 5495 County Stafford Lease Sewing Well 2

Initial Shut-In - Hr. 30 Min. Tool Open - Hr. 45 Min. Final Shut-In - Hr. 45 Min.

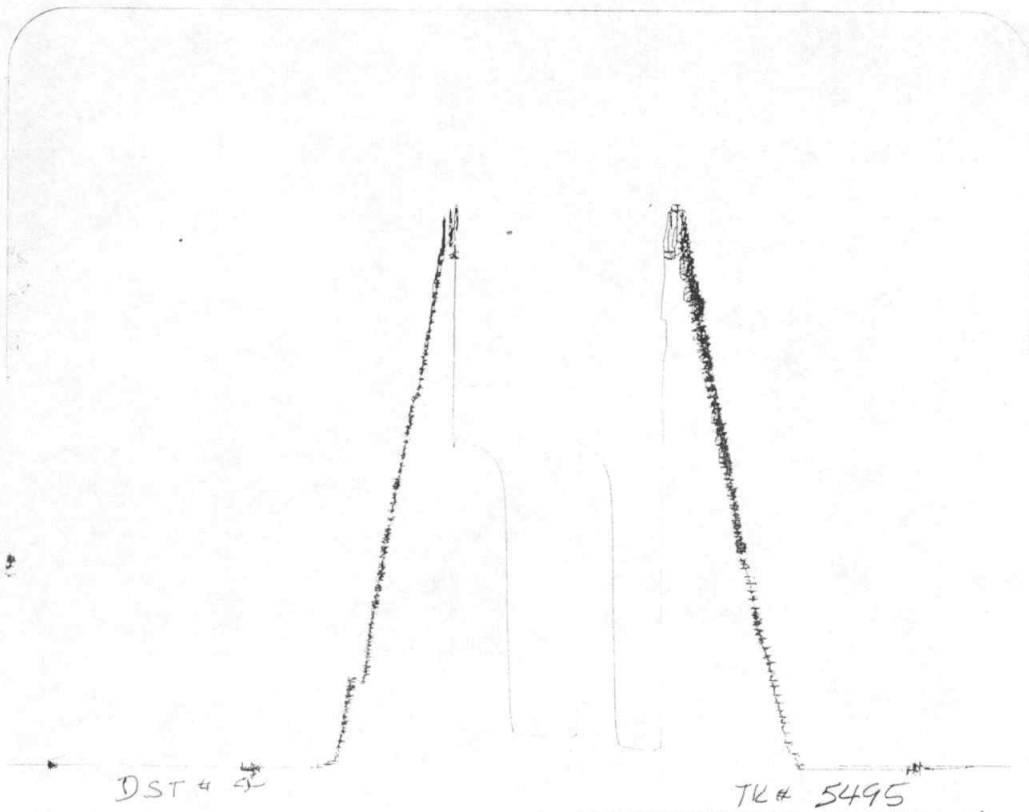
Interval Tested 4290 to 4362 Total Depth 4362

Blow: Weak slowly increasing to fair 30 Minutes Initial Flow Period

Recovery and Remarks: 200' Mud w/oil spots

Initial BHP: 1394# Final BHP: 1411# Initial FP: 57-82# Final FP: 107-133#

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Date December 20, 1990

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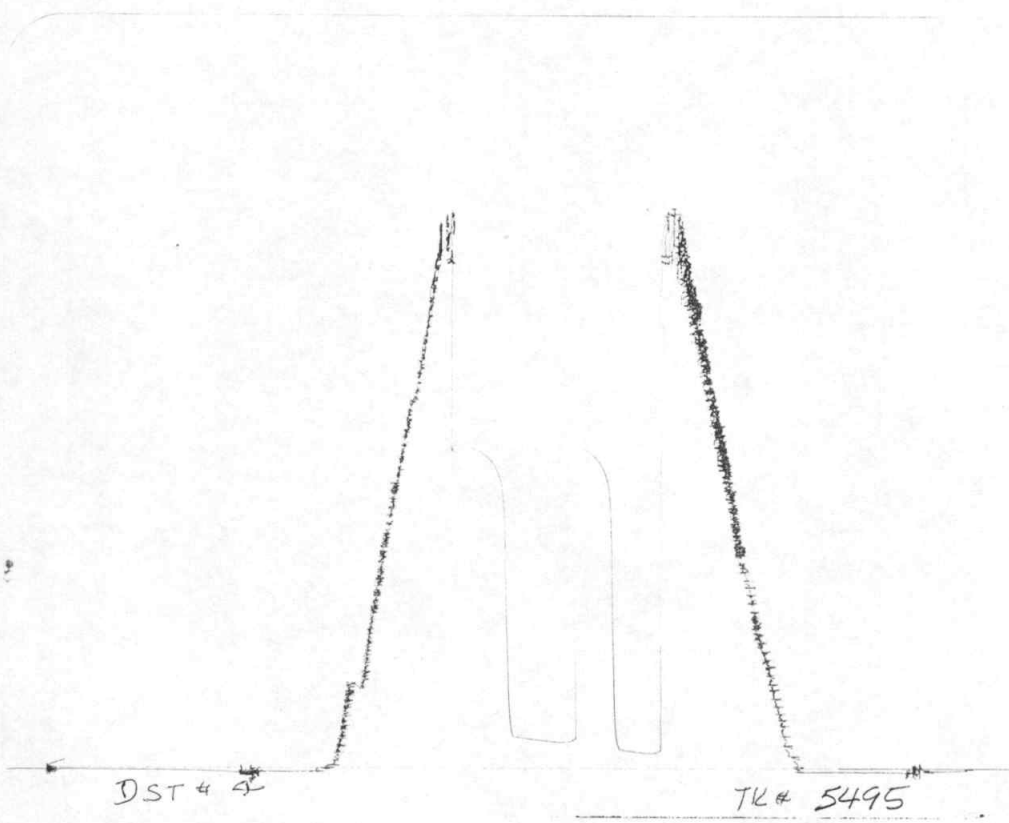
Interval Tested 4290 to 4362 Total Depth 4362

Blow: Weak slowly increasing to fair 30 Minutes Initial Flow Period

Recovery and Remarks: 200' Mud w/oil spots

Initial BHP: 1394# Final BHP: 1411# Initial FP: 57-82# Final FP: 107-133#

Tester Nelson Call Approved By: Howell Crenshaw



POINT	PRESSURE		PSI
	Field Reading	Office Reading	
(A) Initial Hydrostatic Mud	2308#		
(B) First Initial Flow Pressure	57#		
(C) First Final Flow Pressure	107#		
(D) Initial Closed-in Pressure	1394#		
(E) Second Initial Flow Pressure	82#		
(F) Second Final Flow Pressure	133#		
(G) Final Closed-in Pressure	1411#		
(H) Final Hydrostatic Mud	2291#		