

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

Form ACO-1
September 1999
Form Must Be Typed

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

ORIGINAL

Operator: License # 5614
Name: Williams S. Hutchinson dba Hutchinson Oil Co.
Address: P.O. Box #521
City/State/Zip: Derby, KS 67037-0521
Purchaser: Kansas Nebraska (original) - Thunderstruck (current)
Operator Contact Person: William S. (Steve) Hutchinson
Phone: (316) 788-5440
Contractor: Name: Sage Drilling
License: 5421
Wellsite Geologist: Bernard W. Lounsbury (See attached report)

Designate Type of Completion:
 New Well Re-Entry Workover
 Oil SWD SLOW Temp. Abd.
 Gas ENHR SIGW
 Dry Other (Core, WSW, Expl., Cathodic, etc)

If Workover/Re-entry: Old Well Info as follows:
Operator: Robert Braden / Kansas Petroleum (KCC #: 5023)

Well Name: Stegall #1
Original Comp. Date: 12/15/69 Original Total Depth: 3870'
 Deepening Re-perf. Conv. to Enhr./SWD
 Plug Back Plug Back Total Depth
 Commingled Docket No. _____
 Dual Completion Docket No. _____
 Other (SWD or Enhr.?) Docket No. _____

<u>11/17/69</u>	<u>11/25/69</u>	<u>12/15/69</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 145-20,135 - 0000
County: Pawnee
SE SW SW: Approx Sec. 29 Twp. 23 S. R. 15 East West
330' FSL feet from S N (circle one) Line of Section
890' FWL feet from E / W (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:
(circle one) NE SE NW SW
Lease Name: Stegall Well #: #1
Field Name: Benson
Producing Formation: Winfield, Red Eagle, Wabaunsee, Tarkio
Elevation: Ground: 2038' Kelly Bushing: 2043'
Total Depth: 3070' RTD Plug Back Total Depth: 3068' ISTD
Amount of Surface Pipe Set and Cemented at 250' KB Feet
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set N/A Feet
If Alternate II completion, cement circulated from N/A
feet depth to N/A w/ N/A sx cmt.

Drilling Fluid Management Plan OK 10-1-03
(Data must be collected from the Reserve Pit)
Chloride content 86,000 ppm Fluid volume 600 bbls
Dewatering method used pulled clear fluids & evaporation (1969)
Location of fluid disposal if hauled offsite: RECEIVED
Operator Name: N/A KANSAS CORPORATION COMMISSION
Lease Name: N/A License No. 1001012003
Quarter _____ Sec. _____ Twp. _____ S. R. East West
County: N/A Docket No.: N/A WICHITA, KS

10-1-03

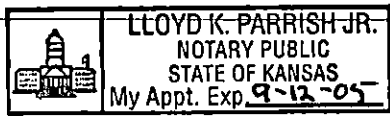
INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 130 S. Market - Room 2078, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information of side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form (see rule 82-3-107 for confidentiality in excess of 12 months). One copy of all wireline logs and geologist well report shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

All requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Signature: [Signature]
Title: Agent for Hutchinson Oil Co. Date: 10/01/03

Subscribed and sworn to before me this 1st day of October,
2003.

Notary Public: Lloyd K Parrish Jr
Date Commission Expires: _____



KCC Office Use ONLY

Letter of Confidentiality Attached
If Denied, Yes Date: _____
 Wireline Log Received
 Geologist Report Received
 UIC Distribution

ORIGINAL

Operator Name: Williams S. Hutchinson dba Hutchinson Oil Co. Lease Name: Stegall Well #: #1
 Sec. 29 Twp. 23 S. R. 15 East West County: Pawnee

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed. Attach copy of all Electric Wireline Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Run <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(Submit Copy)</i> List All E. Logs Run: Dresser Atlas: Gamma/Neutron Laterlog, Acoustilog, Cased Hole Bond Log	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td><input checked="" type="checkbox"/> Log</td> <td>Formation (Top), Depth and Datum</td> <td><input type="checkbox"/> Sample</td> </tr> <tr> <td>Name</td> <td>Top</td> <td>Datum</td> </tr> <tr> <td>Winfield</td> <td>2040'</td> <td>(+4)</td> </tr> <tr> <td>Red Eagle</td> <td>2587'</td> <td>(-543)</td> </tr> <tr> <td>Wabaunsee</td> <td>2756'</td> <td>(-712)</td> </tr> <tr> <td>Tarkio</td> <td>2880'</td> <td>(-836)</td> </tr> <tr> <td>Burlingame</td> <td>3054'</td> <td>(-1010)</td> </tr> </table>	<input checked="" type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample	Name	Top	Datum	Winfield	2040'	(+4)	Red Eagle	2587'	(-543)	Wabaunsee	2756'	(-712)	Tarkio	2880'	(-836)	Burlingame	3054'	(-1010)
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CASING RECORD <input type="checkbox"/> New <input checked="" type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs./ Ft.	Setting Depth	Type of Cement	# Sacs Used	Type and Percent Additives
Surface	12 1/4"	8 5/8"	20# (used)	250'	60/40 poz	200 sxs	None
Production	7 7/8"	5 1/2"	14# (used)	3060'	Common	325 sxs	4% Gel, 1/4#/sx of Flow Seal

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A

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Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
4 SPF	3056'-3060' (Burlingame) - Under CIBP @ 3025'	1000 GAL 15% HCL Acid	3056'-60'
2 SPF	2882'-2886' (Tarkio)	1000 GAS 15% HCL Acid	2882'-86'
2 SPF	2762'-2764' (Wabaunsee)	500 GAL 15% HCL Acid	2762'-64'
2 SPF	2592'-2596' (Red Eagle)	250 GAL 15% HCL & 1000 GAL 15% HCL	2592'-96'
2 SPF	2042'-2046' (Winfield)	1000 GAL 15% HCL Acid	2042'-46'

TUBING RECORD		Size	Set At	Packer At	Liner Run
		2 3/8" (10.5#)	2916'	None (N/A)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumerd Production, SWD or Enhr.		Producing Method			
01/02/70		<input checked="" type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)			
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	0 BOPD	250 MCF/GPD	12 BWPD	100/0	.6285

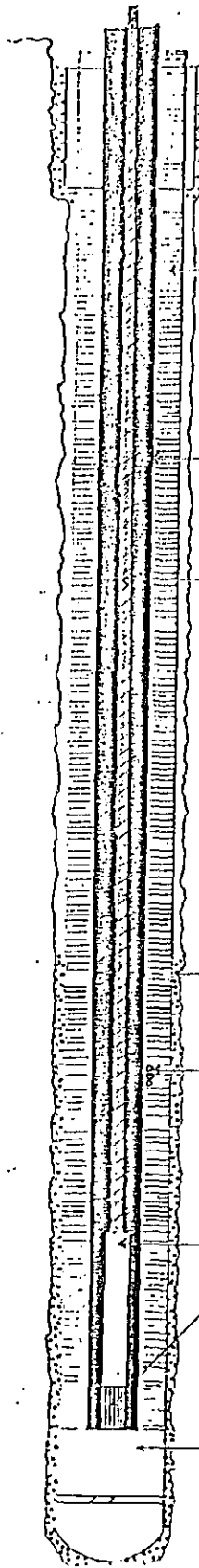
Disposition of Gas Vented Sold Used on Lease
(If vented, Submit ACO-18.)

METHOD OF COMPLETION Open Hole Perf. Dually Comp. Commingled
 Other (Specify) _____

Production Interval Tarkio, Wabaunsee, Red Eagle
 Winfield - See attached report

Subsurface Inventory

Comp. 11/25/69
 Well #1 Stegall
 100' West/SE SW SW
 29-23S-15W
 Pawnee Co.
 Elevation 2039 G.L.
 2041 D.F.
 2044 K.B.



surface pipe
 8 5/8 @ 250' w/200 sack
 HA-5 pozmix

casing
 5 1/2" 14# @ 3060' 96 jts.

tubing
 93 jts. 2"
 1 15'3" mud anchor

sucker rods
 115 3/4" Jones #2 2875'
 1 3/4" " " 6' pony
 1 3/4" " " 8' pony
 2889'

cement
 325 sack Portland & 1/4# Floceal & 4% Howco Gely
 Top @ 1790'

perforations
 3056 - 60 Baker P-1 Set at 2025
 2042 - 46
 2592 - 96
 2762 - 64
 2882 - 86

pump & related equipment
 2" x 1 1/2" x 12' RSA pump with 90 composition rings, 4 cup plunger, Double valve with Airex balls & Seats (Allan Pump) 11-27-74 THD
 See attached sheet on back.

float equipment
 24' shoe jt.

(RTD 3068) (LISTO)

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BERNARD W. LOUNSBURY
CONSULTING GEOLOGIST
WICHITA PLAZA
WICHITA, KANSAS 67202

December 2, 1969

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CONSERVATION DIVISION
WICHITA, KS

Robert G. Braden
1620 Wichita Plaza
Wichita, Kansas

Re: Robert G. Braden
#1 Stegall
100' West SE SW SW
Section 29-23S-15W
Pawnee County, Kansas

Gentlemen:

The following is a sample analysis report of the above captioned test. Samples were saved and examined from the surface to 3068', rotary total depth. The well was under geological supervision from under surface to total depth.

COMMENCED: 11-17-69
ROTARY RELEASED: 11-25-69
CONTRACTOR: Sage Drlg. Co., Inc.-Rig #1
CASING RECORD: 8 5/8" @ 250' w/200 sx.
5 1/2" @ 3060' w/350 sx.
ELEVATIONS: 2044' K.B.
2041' D.F.
2039' G.L.

<u>FORMATION</u>	<u>DEPTH</u>	<u>SEA LEVEL DATUM</u>
Anhydrite	949'	+1095'
Chase Group	1987'	+ 57'
Krider	2015'	+ 29'
Winfield	2040'	+ 4'
Towanda	2105'	- 61'
Fort Riley	2148'	- 104'
Base F Torence	2246'	- 202'
Wreford	2294'	- 250'
Council Grove	2320'	- 276'
Crouse	2366'	- 322'
Bader	2419'	- 375'
Cottonwood	2470'	- 426'

Neva	2509'	- 465'
Red Eagle	2587'	- 543'
Foraker	2638'	- 594'
Admire	2695'	- 651'
Wabaunsee	2756'	- 712'
Tarkio	2880'	- 836'
Elmont	2938'	- 894'
Howard	3010'	- 966'
Burlingame	3054' - 2056-60	-1010'
Driller Total Depth	3068'	-1024'
Electric Log Total Depth	3064'	-1020'

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The above measurements are electric log measurements from Kelley bushing elevation.

DRILL STEM TESTS

#1 1966'-2000' Open 30 minutes. Fair blow increasing to good blow. Closed 30 minutes. Open 30 minutes. Good blow throughout. Closed 30 minutes.

Recovered 10' watery mud. IOIP 309# /30 minutes, FOIP 565# /30 minutes, IF 27#, FF 27#.

#2 2025'-62' Open 30 minutes. Good blow, gas to + surface in 18 minutes. Too small to measure. Closed 30 minutes. Open 60 minutes. Good blow. Gauged 240,000 Cu. Ft. /20 minutes. Stabilized. Closed 45 minutes.

Recovered 126' thin watery mud. IOIP 601# /30 minutes. FOIP 583# /45 minutes, IF 35#, FF 71#.

#3 2568'-2605' Open 30 minutes. Good blow. Gas to + surface in 7 minutes. Gauged 174,000 Cu. Ft. /10 minutes. Gauged 277,000 Cu. Ft. /25 minutes. Closed 45 minutes. Open 60 minutes. Gauged 367,000 Cu. Ft. /30 minutes. Gauged 386,000 Cu. Ft. /45 minutes. Gauged 386,000 Cu. Ft. /50 minutes. Closed 45 minutes.

Recovered 140' gas cut mud. IOIP 856# /45 minutes, FOIP 856# /45 minutes, IF 71#, FF 80#.

- #4 2612'-50' Open 30 minutes. Fair blow.
Closed 30 minutes. Open 30 minutes.
Fair blow decreasing. Closed 30
minutes. Recovered 30' drilling mud.
ICIP 168# /30 minutes, FOIP 265# /30
minutes, IF 35#, FF 44#.
- #5 3045'-3068' Open 30 minutes. Fair blow.
Closed 30 minutes. Open 60 minutes.
Strong blow. Gas to surface 45 min-
utes. Too small to measure.
- Recovered 50' mud. ICIP 795# /45
minutes, FOIP 795# /45 minutes, IF35#,
FF 53#.

ELECTRICAL SURVEY

A Dresser Atlas Gamma Ray Neutron, Laterolog and Acoustilog was run from the surface to 3064', electric log total depth.

GAS LOG UNIT

A Bariod Gas Log Unit was used during the drilling of the #1 Stegalle

OHASE GROUP

- 1987'-92' Gray, finely crystalline to chalky, fossiliferous limestone. Poor fossil porosity. 45-67 units gas. This interval was tested by DST #1, fair blow increasing to good. Recovered 10' watery mud. Electric log calculations give the interval 14% porosity and 57% water saturation.

WINFIELD

- 2040'-46' Gray, finely crystalline to dense, vuggy dolomite. 40 units gas. This interval was tested by DST #2, gauged 240,000 Cu. Ft. Recovered 126' thin watery mud. Electric log calculations give this interval 18-22% porosity with 48-58% water saturation. It is my recommendation that the Winfield be perforated for further testing. +

RED EAGLE

- 2592'-2600' Gray, finely crystalline to chalky, fossiliferous limestone with good to poor fossil and vug porosity. Slight discoloration.

OCT 01 2003

Page -4-

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WICHITA, KS

35 units gas. This interval was tested by DST #3, gauged 386,000 Cu. Ft. Recovered 140' gas cut mud. Porosity for this zone runs 12-18%. Water saturations are 54-70%. It is my recommendation that the Red Eagle be perforated for further testing. *

FORAKER

2638'-50'

Gray, mottled, finely crystalline, fossiliferous limestone with fair fossil porosity and a slight discoloration. 38 units gas. The Foraker was tested by DST #4, recovered 30' drlg. mud. 7-15% porosity. 60-92% water saturation.

WABAUNSEE

2758'-64'

Gray, finely crystalline to chalky limestone. Poor fossil porosity. 48 units gas. 10-14% porosity. 61-86% water saturation.

TARKIO

2880'-88'

Gray, finely crystalline, slightly chalky fossiliferous limestone with pinpoint porosity. 85 units gas. 10-12% porosity. 50-60% water saturation. It is my recommendation that the Tarkio be perforated for testing. *

HOWARD

3010'-17'

Gray, mottled, finely crystalline, fossiliferous limestone with fair fossil porosity. Oolitic in part. 25 units gas in top to 18 units gas remainder. 9-19% porosity. 48-86% water saturation. It is my recommendation that the Howard be perforated and tested prior to abandonment. *

BURLINGAME

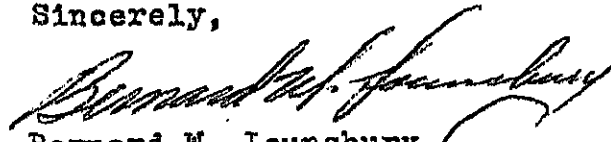
3054'-61'

Gray, finely crystalline to chalky, fossiliferous limestone. Poor fossil porosity. 34 units gas. This interval was tested by DST #5, gas to surface in 45 minutes, but volume was too small to measure. 9-17% porosity. 46-85% water saturation. ?

It is my recommendation that the Burlingame be further tested through open hole type completion.

Structurally the #1 Stegall is 1' lower on top of the Howard than the Thos. H. Allen #1 Gano one location southwest.

Sincerely,



Bernard W. Lounsbury

BWL:ml

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COMPLETION REPORT

Robert G. Braden #1 Stegall
100' west/SE SW SW Sec. 29-T23S-R15W
Pawnee County, Kansas

12-05-69 Moved in and rigged up C. E. Wood Well Servicing Company FRANK'S Pulling Unit. Ran 4 3/4" bit, bit sub and 2 3/8" EUE tubing and verified PBD at 3035.62' (tubing tally). Drilled rubber HOWCO cementing plug, cement in shoe joint and guide shoe. Measured approximately seven feet of very soft drilling below shoe. Circulated and cleaned out to firm bottom at 3066.60' (tubing tally). Pulled tubing, bit and sub and installed master gate valve. TSD 15:00.

12-06-69 Rigged up and swabbed casing to 3017'. Checked production with casing swab:

00:30 No show of gas, oil or water
00:30 No show of gas, oil or water
04:30 No show of gas or oil. Recovered
20 gallons of fresh, muddy water

Rigged up Dresser-Atlas, checked four bottom casing collars and perforated 3056'-3060' w/16 E-gun bullets. (T.D. by Dresser-Atlas = 3065.5') No show of gas, oil or water, natural. Acidized Burlington Limestone, through perforations and open hole, with 1000 gal HOWCO 15% Hydrochloric Acid. Formation broke from 475 psi to 225 psi. Increased rate to 20 GPM, formation broke from 500 psi to 275 psi. Increased rate to 210 GPM at the end of treatment. Final pressure = 50 psig. Well pressure went to vacuum immediately. Total load = 99 BW. Found fluid top at 1000' with casing swab. Swabbed casing to 2200', recovered 36 BLW. TSD 15:00.

12-07-69 Opened up casing, no pressure or vacuum. Well commenced flowing in 2 minutes, producing gas only. Flow increased to a moderate rate and then decreased to nothing. Swabbed casing to 3017', recovered 24 barrels of load water. Well commenced flowing an estimated 44 MCFGPD. Ran casing swab 3017' each fifteen minutes for 3 hours, recovering small amounts of muddy, fresh water. Flow of gas remained constant at 44 MCFGPD. Rigged up Dresser-Atlas and set Baker P-1 Bridging Plug at 3025'. Loaded well with 74

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COMPLETION REPORT (Cont.)
Robert G. Braden #1 Stegall

barrels of fresh water. Perforated the following zones (Cement Bond-Collar Log measurements):

2825'

✓ Tarkio Limestone	2882'-2886'	w/8 E-gun bullets
✓ Wabaunsee Limestone	2762'-2764'	w/4 E-gun bullets
✓ Red Eagle Limestone	2592'-2596'	w/8 E-gun bullets
Winfield Dolomite	2042'-2046'	w/8 E-gun bullets

Ran Baker Model C Retrievable Bridging Plug, Baker Model R Double-Grip Packer and ten joints of tubing. Set Bridging Plug and shut in well. TSD 14:00.

12-08-69 Opened casing and tubing valves, no pressure or vacuum response. Completed running tubing. Set Bridging Plug at 2898.26' and set Packer at 2875.70'. Swabbed tubing to 2882', recovered 11 BLW, no show of gas or oil. Acidized Tarkio, through perforations, with 1000 gallons HOWCO 15% Hydrochloric Acid. Formation broke from 1250 psi and treated at an average pressure of 750 psi, and a rate of 105 GPM. Final treating pressure was 850 psi which decreased to 260 psi when pumps were stopped. Pressure decreased in 20 minutes to 200 psi. Total load = 36 BW. Opened tubing and flowed 3 BLW before well died. Swabbed tubing to 2882', recovered 12 BLW and a small amount of gas. Swabbed tubing at following intervals with recoveries:

00:10	2 BLW + acid gas
00:10	1.5 BLW + acid gas
00:15	2.5 BLW + acid gas
00:15	2.0 BLW
00:15	1.5 BLW + natural gas
00:15	1.0 BLW + natural gas
01:00	1.5 BLW + natural gas (swabbing steadily)
00:20	0.5 BLW + natural gas
00:20	0.1 BLW + natural gas

Installed 2" Orifice Well Tester. Initial flow = 164 MCFGPD (assuming temperature = 60° F. and gravity = 0.60). Flowed and tested well 15:00. TSD 15:00.

OCT 01 2003

E. B. KRIDER
CONSULTING PETROLEUM ENGINEER

CONSERVATION DIVISION
WICHITA, KS

COMPLETION REPORT (Cont.)
Robert G. Braden #1 Stagall

12-09-69 Average flow rate for 15:00 = 164 MCFGPD (assuming temperature = 60° F. and gravity = 0.60). Swabbed tubing to 2882', recovered 1.2 BLW. Shut in well and observed 5-minute pressures:

00:05	180 psig
00:10	232 psig
00:15	320 psig
00:20	(missed)
00:25	405 psig
00:30	445 psig
00:35	475 psig
00:40	502 psig
00:45	526 psig
00:50	541 psig
00:55	561 psig
01:00	580 psig
01:05	590 psig
01:10	600 psig
01:15	610 psig
01:20	620 psig
01:25	630 psig
01:30	640 psig
01:35	650 psig
01:40	655 psig
01:45	660 psig
01:50	665 psig
01:55	669 psig
02:00	675 psig

Blew down well. Reset Bridging Plug at 2774.16'. Reset Packer at 2751.53'. Swabbed tubing to 2759', recovered 10 BLW. No show of gas, oil or water. Acidized Wabaunsee with 500 gallons HDMCO 15% Hydrochloric Acid (through perforations). Formation broke down from 800 psi to 500 psi and treated at 1.0 to 1.5 BPM. Total load = 20 BLW. Final pressure was 450 psig which decreased to 375 when pumps were stopped. Pressure decreased to 310 psig in 18 minutes. Swabbed tubing to 2759', recovered 12 BLW + natural gas. Observed following shut-in pressures:

00:15	120 psig
00:50	335 psig

Reseated Bridging Plug at 2617.12' and reseated Packer

OCT 01 2003

COMPLETION REPORT (Cont.)
Robert G. Braden #1 Stegall

CONSERVATION DIVISION
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at 2584.56'. Swabbed tubing dry, no show of gas, oil or water. Opened tubing on 32/64" choke. TSD 15:00.

12-10-69 Very small flow of gas after having been open on choke for 13:00. Observed closed-in Tubing Pressure:

00:40 30 psig

Swabbed tubing to 2592', recovered 2 BLW. Acidized Red Eagle, through perforations, with 250 gallons HOWCO MCA. Formation accepted fluid at 650 psig. Treated well at 650 psig and 140 GPM. Final pressure was 650 psig, which decreased to 250 psig when pumps were shut down. Pressure decreased to vacuum in 00:04. Swabbed tubing to 2592', well commenced flowing load water spray and an estimated 300 MCFGPD. Flowed at this rate 00:55. Observed closed-in Tubing Pressure:

00:05 340 psig

Re-acidized Red Eagle, through perforations, with 1000 gallons HOWCO 15% Hydrochloric Acid. Formation accepted fluid at 500 psig and pressure increased to a final one of 1000 psig at 180 GPM. Pressure dropped to 375 psig when pumps were shut down and to 175 psig in 00:06. Opened tubing and flowed back 6 BLW. Swabbed tubing to 1500', recovered 6 BLW, well commenced flowing load water and a substantial amount of gas. Flowed well for 01:00 on a 48/64" choke at a rate of 2,306 MCFGPD + load water with a Tubing Pressure of 140 psig. Shut in well and observed Tubing Pressure:

00:00 140 psig
00:05 630 psig
00:10 705 psig
00:15 725 psig
00:20 740 psig
00:25 750 psig
00:30 756 psig

~~Killed Red Eagle Zone with fresh water. Reset Bridging~~

E. B. KRIDER
CONSULTING PETROLEUM ENGINEER

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COMPLETION REPORT (Cont.)
Robert G. Braden #1 Stegall

Plug at 2060.25' and Packer at 2038.26'. Swabbed tubing dry, no show of gas, oil or water. Acidized Winfield, through perforations, with 250 gallons HOWCO MCA. Formation broke down from 800 psig to 300 psig and treated at an average rate of 20 GPM. Pressure dropped to 200 psig when pumps were shut down. Swabbed tubing to 1500', recovered 6 BLW (of 14 barrels total load water). Well kicked off and flowed load water spray and natural gas for 01:00. Choked well to 16/64" and flowed into pit overnight. TSD 15:00.

12-11-69 Well flowed through 16/64" choke for 14:00. Opened to 48/64" choke. Flow rate stabilized at 370 MCFGPD + spray load water, tubing pressure stabilized at 30 psig. Shut in well and observed tubing pressure:

00:15 340 psig

✓ Acidized Winfield, through perforations, with 1000 gallons HOWCO 15% Hydrochloric Acid. Formation accepted fluid at 500 psig, at a rate of 140 GPM, but pressure gradually increased to 700 psig. Increased rate to 185 GPM, pressure remained at 700 psig. Pressure dropped to 275 psig when pumps were stopped and to 0 psig in 00:15. Total load = 33 barrels load water. Swabbed tubing to 1800', recovered 7 BLW. Well kicked off and flowed load water spray + 593 MCFGPD through 48/64" choke at a Tubing Pressure of 40 psig. After flowing at this rate for 01:00, well was shut in and Tubing Pressure build-up was observed:

00:05	305 psig
00:10	410 psig
00:15	440 psig
00:20	470 psig
00:25	475 psig
00:30	480 psig
00:35	480 psig
00:40	480 psig
00:45	480 psig

Opened well on 48/64" choke and flowed for 05:00 at a Tubing Pressure of 50 psig. Flow rate and

E. B. KRIDER
CONSULTING PETROLEUM ENGINEER

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KANSAS CORPORATION COMMISSION

OCT 01 2003

CONSERVATION DIVISION
WICHITA, KS

COMPLETION REPORT (Cont.)
Robert G. Braden #1 Stegall

liquid volumes appeared to be stabilized. Observed rates were:

11:50 A.M.	539 MCFGPD + load water
12:50 P.M.	721 MCFGPD + load water
01:50 P.M.	838 MCFGPD + load water
02:50 P.M.	816 MCFGPD + load water
03:50 P.M.	793 MCFGPD + load water
04:50 P.M.	793 MCFGPD + load water

Shut in well and observed Tubing Pressure build-up:

00:00	50 psig
00:05	330 psig
00:10	360 psig
00:15	375 psig
00:20	385 psig
00:25	395 psig
00:30	400 psig
00:35	410 psig
00:40	415 psig
00:45	420 psig
00:50	425 psig
00:55	428 psig
00:60	430 psig

Flowed well on 32/64" choke for 03:00. Closed in well at 09:00 P.M. TSD 11:00. Secured analysis of produced water (05:00 P.M. sample):

<u>ION</u>	<u>CONCENTRATION</u>
Hydrogen sulfide	none
Iron	strong
Chloride	130,150
Magnesium	10,724
Calcium	30,250
Sulphates	0
specific gravity	1.140
pH	6

HOWCO analyst considers it to be almost 100% spent acid water.

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12-12-69 Shut-in Tubing Pressure = 525 psig/11:00, (unknown amount of water in tubing). Unseated Packer and circulated gas from casing and tubing. Pulled Packer and Bridging Plug and ran production tubing as follows (from bottom up):

1 - 3 $\frac{1}{2}$ " O.D. orange-peeled gas anchor with perforated swage on top	15.81'
1 - 1 25/32" Allan Seating Nipple	1.15'
1 - 2 3/8" EUE x 10' Tubing Nipple	10.05'
93 fts. - 2 3/8" EUE 4.70# Tubing	2883.01'
1 - 2 3/8" x 4' Tubing Nipple	4.10'
	<hr/>
	2914.12'
Zero Correction	2.00'
Bottom of anchor @	<hr/>
	2916.12'

Tubing perforations @ (2901.00')

Well took approximately 1 barrel of water per minute on a slight vacuum doing the entire two hours and fifteen minutes required to round-trip the tubing. Installed master valve on tubing, tightened all connections and commenced swabbing tubing. After approximately 70 barrels of load water was recovered, well kicked off and flowed an estimated 2,000 + MCFGPD plus substantial amounts of load water, through a 48/64" choke with a tubing pressure of 125 psig. Shut in all valves. Estimated load water remaining = 200 bbls.

E. B. Krider