

STATE CORPORATION COMMISSION OF KANSAS
OIL & GAS CONSERVATION DIVISION
WELL COMPLETION FORM
ACO-1 WELL HISTORY
DESCRIPTION OF WELL AND LEASE

ORIGINAL

Operator: License # 6246

Name: Bennett & Schulte Oil Company

Address P. O. Box 329

City/State/Zip Russell, KS 67665

Purchaser: Farmland Industries Inc.

Operator Contact Person: Frank Schulte

Phone (913) -483-2721

Contractor: Name: Emphasis Oil Operations

License: 8241

Wellsite Geologist: Dave Shumaker

Designate Type of Completion

- New Well Re-Entry Workover
- Oil SWD SIOV Temp. Abd.
 Gas ENHR SIGW
 Dry Other (Core, WSW, Expl., Cathodic, etc)

If Workover/Re-Entry: old well info as follows:

Operator: _____

Well Name: _____

Comp. Date _____ Old Total Depth _____

- Deepening Re-perf. Conv. to Inj/SWD
 Plug Back PBSD
 Commingled Docket No. _____
 Dual Completion Docket No. _____
 Other (SWD or Inj?) Docket No. _____

5/28/93 6/5/93 6/27/93
Spud Date Date Reached TD Completion Date

API NO. 15- 167-23,054-00-00

County Russell

SE - NE - NW - _____ Sec. 13 Twp. 14S Rge. 13 E W

4290 Feet from N (circle one) Line of Section

2970 Feet from W (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:
NE, SE, NW or SW (circle one)

Lease Name Rein Well # 1

Field Name N/A

Producing Formation Lansing

Elevation: Ground 1851' KB 1856'

Total Depth 3370' PBSD _____

Amount of Surface Pipe Set and Cemented at 348 Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set _____ Feet

If Alternate II completion, cement circulated from _____

feet depth to _____ w/ _____ sx cnt.

Drilling Fluid Management Plan ALT 2 8/2 10-18-93
(Data must be collected from the Reserve Pit)

Chloride content 75,000ppm Fluid volume _____ bbls

Dewatering method used _____

Location of fluid disposal if hauled offsite: _____

Operator Name _____

Lease Name _____ License No. _____

_____ Quarter Sec. _____ Twp. _____ S Rng. _____ E/W

County _____ Docket No. _____

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 200 Colorado Derby Building, 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 on 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 Frank R. Schulte
Title Partner Date 9/13/93

Subscribed and sworn to before me this _____ day of _____ 19 _____

Notary Public Jim B. Daniel

Date Commission Expires 5-17-97

JIM B. DANIEL
Notary Public - State of Kansas
My Appt. Expires 5-12-97

K.C.C. OFFICE USE ONLY RECEIVED

F Letter of Confidentiality Attached
C Wireline Log Received
C Geologist Report Received

SEP 14 1993

Distribution
 KCC SWD/Rep NGPA
 KGS Plug CONSERVATION DIVISION
Wichita, Kansas

Operator Name Bennett & Schulte Oil Co.

Lease Name Rein

Well # 1

East

County Russell

Sec. 13 Twp. 14S Rge. 13

West

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all drill stem 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 during test. Attach extra sheet if more space is needed. Attach copy of log.

Drill Stem Tests Taken (Attach Additional Sheets.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Anhydrite	794	+1062
Electric Log Run (Submit Copy.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Base Anhydrite	829	+1027
List All E.Logs Run:		Tarkio Lime	2432	-576
Radiation Guard		Topeka	2704	-848
Sonic Cement Bond		Heebner Shale	2936	-1080
		Toronto	2954	-1098
		Lansing	3006	-1150
		Base Kansas City	3288	-1432
		Conglomerate	3332	-1476
		RTD	3370	-1514
		LTD	3370	-1514

CASING RECORD <input checked="" type="checkbox"/> New <input 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	# Sacks Used	Type and Percent Additives
Surface	12 1/4"	8 5/8"	20	348	60/40poz	200	2%gel 3%cc
Production	7 7/8"	4 1/2"	10.5	3280	60/40poz	225	2%gel 3%cc

ADDITIONAL CEMENTING/SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
<input checked="" type="checkbox"/> Protect Casing	800-Surf	60/40 poz	200	6%gel
<input type="checkbox"/> Perforate				
<input type="checkbox"/> Plug Back TD				
<input type="checkbox"/> Plug Off Zone				

PERFORATION RECORD - Bridge Plugs Set/Type		Acid, Fracture, Shot, Cement Squeeze Record
Shots Per Foot	Specify Footage of Each Interval Perforated	(Amount and Kind of Material Used) Depth
4	3023-3026	1500 gal. 15% HCL NonE
2 2	3042-3052	3000 gal. 15% HCL Ret.

TUBING RECORD	Size <u>2 3/8"</u> Set At <u>3100</u> Packer At	Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
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Date of First, Resumed Production, SWD or Inj. <u>June 27, 1993</u>	Producing Method <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)
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Estimated Production Per 24 Hours	Oil <u>15</u> Bbls.	Gas <u>0</u> Mcf	Water <u>Tr</u> Bbls.	Gas-Oil Ratio <u>39</u>	Gravity
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Disposition of Gas:	METHOD OF COMPLETION	Production Interval
<input type="checkbox"/> Vented <input type="checkbox"/> Sold <input checked="" type="checkbox"/> Used on Lease (If vented, submit ACO-18.)	<input type="checkbox"/> Open Hole <input checked="" type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <input type="checkbox"/> Other (Specify) _____	_____

REMAINDER DRILL STEM TESTS

API# 15-167-23054-00-00

Drill Stem Test No. 1 2440-2509 Willard Shale

Time: 30-30-30-30

Flows: 1st Open - Good - Bottom of bucket in 9 min.
2nd Open - Good - Bottom of bucket in 12 min.

Recovery:

660 feet of inert gas above fluid
120 feet of thin gas cut mud

Pressures:

IHMP: 1285# IFP: 92# -101#
ISIP: 480# FFP: 117# - 135#
FSIP: 463# BHT: N.A.
FHMP: 1270#

Mud Properties:

Viscosity: 38 Weight: 9.5 Water loss: N.C.

ORIGINAL

Drill Stem Test No. 2 3014-57 L.K.C. B & C Zones

Time: 45-45-45-45

Flows: 1st Open - Good - Off bottom of bucket in 7 min.
2nd Open - Good - Off bottom of bucket in 10 min.

Recovery:

1800 feet of gas in pipe
370 feet of muddy gassy oil
370 feet of total fluid

Pressures:

IHMP: 1637# IFP: 92# -118#
ISIP: 925# FFP: 176# - 202#
FSIP: 908# BHT: N.A.
FHMP: 1595#

Mud Properties:

Viscosity: 49 Weight: 10.5 Water loss: 10.0

Drill Stem Test No. 3 3069-3118 L.K.C. F & G Zones

Time: 45-45-45-45

Flows: 1st Open - Fair increasing to good
2nd Open - Fair increasing to good

Recovery:

260 feet of muddy water with a sum of oil on top

Pressures:

IHMP: 1620# IFP: 75# - 93#
ISIP: 840# FFP: 126# -143#
FSIP: 790# BHT: N.A.
FHMP: 1605#

Mud Properties:

Viscosity: 42 Weight: 9.1 Water loss: 8.0

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STATE CONSERVATION COMMISSION

SEP 14 1993

CONSERVATION DIVISION
Wichita, Kansas

WELL DATA

FIELD, SEC, TWP, COUNTY, STATE, FORMATION NAME, THICKNESS, PROD, COMPLETION DATE, Packer Type, etc.

ORIGINAL

JOB DATA

Table with columns: CALLED OUT, ON LOCATION, JOB STARTED, JOB COMPLETED. Includes dates and times.

PERSONNEL AND SERVICE UNITS

Table with columns: NAME, UNIT NO. & TYPE, LOCATION. Lists personnel like J. Ren and G. Blasing.

DEPARTMENT, DESCRIPTION OF JOB (Surface Pipe)

JOB DONE THRU: TUBING, CASING, ANNULUS, TBG/ANN.

CUSTOMER REPRESENTATIVE: Bill Owen

HALLIBURTON OPERATOR: Jim Ren

CEMENT DATA

Table with columns: STAGE, NUMBER OF SACKS, CEMENT, BRAND, BULK SACKED, ADDITIVES, YIELD, MIXED.

PRESSURES IN PSI, CIRCULATING, BREAKDOWN, AVERAGE, SHUT-IN, HYDRAULIC HORSEPOWER, ORDERED, TREATING, FEET.

SUMMARY, VOLUMES, PRESLUSH, LOAD & BKDN, TREATMENT, CEMENT SLURRY, TOTAL VOLUME, REMARKS.

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JOB LOG

WELL NO. 1 LEASE K&W TICKET NO. S-2993

CUSTOMER Barnett & Shute PAGE NO. 1

JOB TYPE Surt 15-167-2054-00-00 DATE 5-29-93

FORM 2013 R-2

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
								ORIGINAL
								LOW LOC - Rig Drilling 163'
	0618	7	5				300	St. Preflush
	0620	6	0				200	St. Cement
	0626	6	42				200	Finish Mining
	0627		0				-	Drop Plug
	0628	6	0				200	St. Disp
	0630	6	22				200	Plug Down - Give 10WAL TO AT Close IN C/O

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DATE SEP 14 1993

CONSERVATION DIVISION
Wichita, Kansas

CUSTOMER



JOB SUMMARY

HALLIBURTON DIVISION OKLAHOMA CITY OK
 HALLIBURTON LOCATION HAYS KS 15-167-23054-00-00 TICKET NO. 240822

WELL DATA

FIELD _____ SEC. 13 TWP. 14 RNG. 13 COUNTY Russell STATE KS

FORMATION NAME _____ TYPE _____

FORMATION THICKNESS _____ FROM _____ TO _____

INITIAL PROD: OIL _____ BPD. WATER _____ BPD. GAS _____ MCFD

PRESENT PROD: OIL _____ BPD. WATER _____ BPD. GAS _____ MCFD

COMPLETION DATE _____ MUD TYPE _____ MUD WT. _____

PACKER TYPE _____ SET AT _____

BOTTOM HOLE TEMP. _____ PRESSURE _____

MISC. DATA _____ TOTAL DEPTH 3370

JOB DATA

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR		
FLOAT SHOE		
GUIDE SHOE <u>4 1/2</u>	<u>1</u>	<u>Howco</u>
CENTRALIZERS <u>5.4 4 1/2</u>	<u>4</u>	<u>Howco</u>
BOTTOM PLUG		
TOP PLUG		
HEAD <u>Swiper 4 1/2</u>	<u>1</u>	<u>Howco</u>
PACKER		
OTHER <u>1 pc seal w/ fill up 4 1/2</u>	<u>1</u>	<u>Howco</u>

NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
		<u>4 1/2</u>	<u>KS</u>	<u>3280</u>	

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
<u>A 7 Werth</u>	<u>26101</u>	<u>Pt</u>
<u>R BROWN</u>	<u>57200</u>	<u>HAYS KS</u>
<u>D Dobrate</u>	<u>4604</u>	<u>ST</u>

MATERIALS

TREAT. FLUID _____ DENSITY _____ LB/GAL.-API

DISPL. FLUID _____ DENISTY _____ LB/GAL.-API

PROP. TYPE _____ SIZE _____ LB.

PROP. TYPE _____ SIZE _____ LB.

ACID TYPE _____ GAL. _____ %

ACID TYPE _____ GAL. _____ %

ACID TYPE _____ GAL. _____ %

SURFACTANT TYPE _____ GAL. _____ IN.

NE AGENT TYPE _____ GAL. _____ IN.

FLUID LOSS ADD. TYPE _____ GAL.-LB. _____ IN.

GELLING AGENT TYPE _____ GAL.-LB. _____ IN.

FRIC. RED. AGENT TYPE _____ GAL.-LB. _____ IN.

BREAKER TYPE _____ GAL.-LB. _____ IN.

BLOCKING AGENT TYPE _____ GAL.-LB. _____

PERFPAC BALLS TYPE _____ QTY. _____

OTHER _____

OTHER 400# SALT Flush

DEPARTMENT CMT

DESCRIPTION OF JOB 4 1/2

JOB DONE THRU: TUBING CASING ANNULUS TBG/ANN.

CUSTOMER REPRESENTATIVE X

HALLIBURTON OPERATOR A 7 Werth COPIES REQUESTED _____

CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
	<u>225</u>	<u>40/60</u>	<u>P2</u>	<u>B</u>	<u>60# SALT 5# Gelsmate 6% Halw 322</u>	<u>1.28</u>	<u>14.1</u>

PRESSURES IN PSI

SUMMARY

VOLUMES

CIRCULATING _____ DISPLACEMENT _____ PRESLUSH: BBL-GAL. _____ TYPE _____

BREAKDOWN _____ MAXIMUM _____ LOAD & BKDN: BBL-GAL. _____ PAD: BBL-GAL. _____

AVERAGE _____ FRACTURE GRADIENT _____ TREATMENT: BBL-GAL. _____ DISPL. BBL-GAL. 51.29

SHUT-IN: INSTANT _____ 5-MIN. _____ 15-MIN. _____ CEMENT SLURRY: BBL-GAL. _____ TOTAL VOLUME: BBL-GAL. _____

ORDERED _____ AVAILABLE _____ USED _____ AVERAGE RATES IN BPM _____

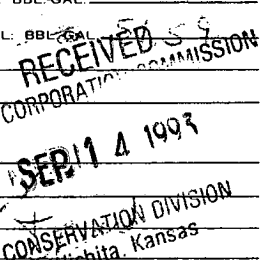
TREATING _____ DISPL. _____ OVERALL _____ CEMENT LEFT IN PIPE _____

FEET 34.96 REASON Shoe Joint

REMARKS

See sub log & chart

Handwritten notes and signatures



CUSTOMER Barnett & Schell

LEASE Rain

WELL NO. 1

JOB TYPE 4 1/2 L.S.

DATE 6-5-93

JOB LOG

WELL NO. 1 LEASE Rein TICKET NO. 240822
 CUSTOMER Bennett + schulte PAGE NO. 1
 JOB TYPE 4 1/2 C.S. DATE 6-5-93

FORM 2013 R-2

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
1	0220							called out ORIGINAL
	0430							now loc. w/ R.T. + cont. 225 SKS 40/60 poz 6% salt 5 th G.I. .6% of Halo P 322 set up + Plan Sub w/ 400 salt inside GREAT Guns Logging.
	0500							out of Hole w/ Logging tool R.9 up to Run csg. TD @ 3370, cont, 1, 5, 6, 9 1st Joint insert w/ Fillup - SJ. 34.96' Casing set @ 3280'
	0545							LAY DOWN Kelly
	0620							start 4 1/2 csg 10.5# Pipe.
	0740							csg on Bottom @ 3280'
	0745							CIR w/ mud bag Hook up to cont csg.
		4	20					200# start 20 BBL salt flush
		5						200# st mix 225 sks cont
		5	51.29					200# Fin mix - Washout Pump + Line Release Plug.
	0844	6						100# start Disp 1000# Fin Disp.
	0854		51.59					1000# Plug Down
	0858							Release to take DRY. Plug Rat Hole w/ 10 sks cont washup Equip
	0930							Job complete
								muddy - get cal to pull tats off loc.

Thanks
 Allen

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SEP 14 1993

CONSERVATION DIVISION
 Wichita, Kansas

CUSTOMER

Phone 913-483-2627, Russell, Kansas
 Phone 316-793-5861, Great Bend, Kansas

15-167-23054-00-00

ORIGINAL

Phone Plainville 913-434-2812

Phone Ness City 913-798-3843

New

ALLIED CEMENTING CO., INC.

Home Office P. O. Box 31

Russell, Kansas 67665

4115

Date	6-21-93	Sec.	13	Twp.	14	Range	13	Called Out	8:00 AM	On Location	9:30 AM	Job Start	10:15 AM	Finish	2:15 PM
Lease	Rein	Well No.	#1	Location				Bunker Hill 70 1/2 N 15 E	County	Russell	State	Kansas			
Contractor	Lightning Well Service														
Type Job	Circulate Cement														
Hole Size	T.D.														
Csg.	4 1/2"	Depth													
Tbg. Size	2"	Depth 700'													
Drill Pipe	4 1/2"	Depth 2400'													
Tool	4 1/2"	Depth 700'													
Cement Left in Csg.	Shoe Joint														
Press Max.	Minimum														
Meas Line	Displace														
Perf.	@ 800'														

Owner SAME
 To Allied Cementing Co., Inc.
 You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.

Charge To Bennett & Schulte oil co
 Street Box 329
 City Russell State Kan 67665
 The above was done to satisfaction and supervision of owner agent or contractor.

Purchase Order No.
 X Registered Bennett

EQUIPMENT

#177	No.	Cementer	Row D.
Pumptrk		Helper	27 Kaufman Glenn G
#160	No.	Cementer	
Pumptrk		Helper	
Bulktrk		Driver	Paul D
Bulktrk	#155	Driver	

Amount Ordered	150 SKS 60/40 poz. 6% gel		
Consisting of	50 SKS 60/40 3% gel		
Common	140	575	805.00
Poz. Mix	60	3.00	180.00
Gel.	5	7.00	35.00
Chloride	2	25.00	50.00
Quickset			
Sand	1	5.00	5.00
Handling	100		200.00
Mileage	8 m	.04	64.00
Sub Total			1339.00
Total			

DEPTH of Job

Reference:	#1	Pump Trk	525.00
		235 Per mile 8m	18.00
Sub Total			543.00
Tax			
Total			

Remarks: Tested Bridge plug & packer to 1000' Held OK spotted 1 SK sand perforated 500' set packer 700' Mixed 150 SKS cement allowed with 50 SKS 60/40 3% gel staged & squeezed one set pulled 5 joints shut the 500' Cement did circulate to surface

Witness by 2 Kaufman
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 Wichita, Kansas