

ORIGINAL

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

API NO. 15- 141-20291-00-00

County Osborne

C NW NW SW Sec. 2 Twp. 10 Rge. 12 E
X W

Operator: License # 3293

2310 Feet from (S) (circle one) Line of Section

Name: Russell Oil, Inc.

330 Feet from (E) (circle one) Line of Section

Address P.O. Box 272

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

City/State/Zip Russell, KS 67665

Lease Name Single Trust Well # 2

Purchaser: Farmland Industries

Field Name Single North

Operator Contact Person: LeRoy Holt II

Producing Formation Kansas City

Phone (913) 483-3954

Elevation: Ground 1844' KB 1849'

Contractor: Name: Shields Oil Producers

Total Depth 3413' PBTB 3100'

License: 5184

Amount of Surface Pipe Set and Cemented at 244 Feet

Wellsite Geologist: Francis Whisler

Multiple Stage Cementing Collar Used? X Yes No

Designate Type of Completion
X New Well Re-Entry Workover

If yes, show depth set 899 Feet

X Oil SWD S10W Temp. Abd.

If Alternate II completion, cement circulated from 899'

 Gas ENHR SIGW

feet depth to surface w/ 175 sx cmt.

 Dry Other (Core, WSW, Expl., Cathodic, etc)

Drilling Fluid Management Plan ALT II DPW
(Data must be collected from the Reserve Pit) 5-21-89

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

Chloride content 60,000 ppm Fluid volume 370 bbls

Operator:

Dewatering method used evaporation

Well Name:

Location of fluid disposal if hauled offsite:

Comp. Date Old Total Depth

Operator Name

 Deepening Re-perf. Conv. to Inj/SWD

 Plug Back PBTB

 Commingled Docket No.

 Dual Completion Docket No.

 Other (SWD or Inj?) Docket No.

Lease Name License No.

01-9-95 01-16-95 02-03-95

 Quarter Sec. Twp. S Rng. E/W

Spud Date Date Reached TD Completion Date

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 *LeRoy Holt II*

Title Vice-President Date 02-27-95

Subscribed and sworn to before me this 27 day of March, 19 95.

Notary Public *Carolyn Gnad*

Date Commission Expires

CAROLYN GNAD
NOTARY PUBLIC
STATE OF KANSAS
MY APPT EXPIRES 10-22-97

K.C.C. OFFICE USE ONLY
F Letter of Confidentiality Attached
C X Wireline Log Received
C Geologist Report Received

Distribution
X KCC SWD/Rep NGPA
 KGS Plug Other
(Specify)
3-28-95

Operator Name Russell Oil, Inc. Lease Name Sigle Trust Well # 2
 Sec. 2 Twp. 10 Rge. 12 East West
 County Osborne

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 Datums	<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	Anhydrites	878'	+971
Electric Log Run (Submit Copy.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Topeka	2770'	-921
List All E.Logs Run:		Heebner	3006'	-1157
		LKC	3060'	-1211
		BKC	3394'	-1545
		TD	3413'	-1564

Radiation Guard
Cement Guard

CASING RECORD New Used

Report all strings set-conductor, surface, intermediate, production, etc.

used
used

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"	23#	244'	60/40 Poz	160	2% gel
Production	7 7/8"	5 1/2"	14#	3411'	ASC	150	3% C.C.

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 checked="" type="checkbox"/> Plug Off Zone	3119-21	Common	150	None

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	3110-12'	500 gal. 15% Acid	
	3100'	Set perm. plug	
4	3062-3066'	500 gal. 15% NE Acid	

TUBING RECORD		Size 2 3/8	Set At 3085	Packer At None	Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumed Production, SWD or Inj. 02-06-95		Producing Method <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)			
Estimated Production Per 24 Hours	Oil 20	Bbls.	Gas 0	Mcf 2	Water Bbls. Gas-Oil Ratio Gravity 36°

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: 3062-3066'

TRILOBITE TESTING, L.L.C. API #15-141-20291-000

P.O. Box 362 • Hays, Kansas 67601

ORIGINAL

Drill-Stem Test Data

Well Name SIGLE TRUST #2 Test No. 1 Date 1/14/95
Company RUSSEL OIL, INC Zone LKC 'A'
Address P O BOX 274, RUSSELL, KS 67665 Elevation 1849
Co. Rep./Geo. LEROY HOLT II Cont. SHIELDS Est. Ft. of Pay _____
Location: Sec. 2 Twp. 10S Rge. 12W Co. OSBORNE State KS

Interval Tested 3042-3075 Drill Pipe Size 4.5" XH
Anchor Length 33 Wt. Pipe I.D. - 2.7 Ft. Run 820
Top Packer Depth 3037 Drill Collar - 2.25 Ft. Run _____
Bottom Packer Depth 3042 Mud Wt. 9.0 lb/Gal.
Total Depth 3075 Viscosity 42 Filtrate 10.4

Tool Open @ 9:28AM Initial Blow 1 INCH BLOW BUILDING TO 4 INCHES.

Final Blow 1-1/2 INCH BLOW BUILDING TO 14" (1/4" BLOW BACK ON SHUT IN).

Recovery - Total Feet 90 Flush Tool? NO

Rec. 210 Feet of GAS IN PIPE
Rec. 30 Feet of OIL CUT MUD. 20% OIL; 80% MUD.
Rec. 60 Feet of HEAVILY OIL CUT MUD. 30% OIL; 70% MUD.
Rec. _____ Feet of _____
Rec. _____ Feet of _____

BHT 91 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides _____ ppm System

(A) Initial Hydrostatic Mud 1481.57 PSI AK1 Recorder No. 2342 Range 4995

(B) First Initial Flow Pressure 18.62 PSI @ (depth) 3047 w / Clock No. _____

(C) First Final Flow Pressure 30.63 PSI AK1 Recorder No. 24174 Range 3050

(D) Initial Shut-in Pressure 1176.24 PSI @ (depth) _____ w / Clock No. 22336

(E) Second Initial Flow Pressure 31.88 PSI AK1 Recorder No. _____ Range _____

(F) Second Final Flow Pressure 54.29 PSI @ (depth) _____ w / Clock No. _____

(G) Final Shut-in Pressure 1155.17 PSI Initial Opening 30 Final Flow 60

(H) Final Hydrostatic Mud 1497.01 PSI Initial Shut-in 60 Final Shut-in 60

Our Representative PAUL SIMPSON

TRILOBITE TESTING, L.L.C. API #15-141-20291-0000

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

ORIGINAL

Well Name SIGLE TRUST #2 Test No. 2 Date 1/14/95
Company RUSSEL OIL, INC Zone LKC 'B'
Address P O BOX 274, RUSSELL, KS 67665 Elevation 1849
Co. Rep./Geo. LEROY HOLT II Cont. SHIELDS Est. Ft. of Pay _____
Location: Sec. 2 Twp. 10S Rge. 12W Co. OSBORNE State KS

Interval Tested	<u>3084-3100</u>	Drill Pipe Size	<u>4.5" XH</u>
Anchor Length	<u>16</u>	Wt. Pipe I.D. - 2.7 Ft. Run	<u>820</u>
Top Packer Depth	<u>3079</u>	Drill Collar - 2.25 Ft. Run	_____
Bottom Packer Depth	<u>3084</u>	Mud Wt.	<u>8.9</u> lb/Gal.
Total Depth	<u>3100</u>	Viscosity	<u>42</u> Filtrate <u>11.2</u>

Tool Open @ 8:29PM ^{Initial} Blow 1 INCH BLOW BUILDING TO 5-1/2 INCHES.

Final Blow 1" BLOW BUILDING TO 7 INCHES.

Recovery - Total Feet 105 Flush Tool? NO

Rec. <u>75</u>	Feet of	<u>GAS IN PIPE</u>
Rec. <u>15</u>	Feet of	<u>CLEAN OIL. 10% OIL; 40% WATER; 50% MUD</u>
Rec. <u>30</u>	Feet of	<u>SLIGHT OIL AND WTR CUT MUD. 10% OIL; 40% WTR; 50% MUD</u>
Rec. <u>60</u>	Feet of	<u>OIL SLIGHT MUDDY WATER. 4% OIL; 56% WATER; 40% MUD</u>
Rec. _____	Feet of	_____

BHT 95.5 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW 0.21 @ 65.4 °F Chlorides 38,000 ppm Recovery Chlorides 3,000 ppm System

(A) Initial Hydrostatic Mud 1490.80 PSI AK1 Recorder No. 2342 Range 4995

(B) First Initial Flow Pressure 20.13 PSI @ (depth) 3087 w / Clock No. _____

(C) First Final Flow Pressure 37.34 PSI AK1 Recorder No. 24174 Range 3050

(D) Initial Shut-in Pressure 1001.84 PSI @ (depth) 3094 w / Clock No. 22336

(E) Second Initial Flow Pressure 41.54 PSI AK1 Recorder No. _____ Range _____

(F) Second Final Flow Pressure 76.37 PSI @ (depth) _____ w / Clock No. _____

(G) Final Shut-in Pressure 955.68 PSI Initial Opening 30 Final Flow 60

(H) Final Hydrostatic Mud 1476.03 PSI Initial Shut-in 60 Final Shut-in 60

Our Representative PAUL SIMPSON

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

API # 15-141-20291-00-00

Drill-Stem Test Data

ORIGINAL

Well Name SIGLE TRUST #2 Test No. 3 Date 1/15/95
Company RUSSEL OIL, INC Zone LKC 'C'
Address P O BOX 274, RUSSELL, KS 67665 Elevation 1849
Co. Rep./Geo. LEROY HOLT II Cont. SHIELDS Est. Ft. of Pay 5
Location: Sec. 2 Twp. 10S Rge. 12W Co. OSBORNE State KS

Interval Tested 3103-3120 Drill Pipe Size 4.5" XH
Anchor Length 17 Wt. Pipe I.D. - 2.7 Ft. Run 820
Top Packer Depth 3098 Drill Collar - 2.25 Ft. Run _____
Bottom Packer Depth 3103 Mud Wt. _____ 9.0 lb/Gal.
Total Depth 3120 Viscosity 43 Filtrate 11.2

Tool Open @ 9:08AM Initial Blow 3 INCH BLOW BUILDING TO 8 INCHES.

Final Blow 1" BLOW BUILDING TO BOTTOM OF BUCKET IN 45 MINUTES.
1/4 INCH BLOW ON SHUT IN.

Recovery - Total Feet _____ Flush Tool? NO

Rec. 420 Feet of GAS IN PIPE
Rec. 20 Feet of CLEAN OIL.
Rec. 150 Feet of GSY SALT WTR & MUD CUT OIL-5%GAS-50%OIL-15%WTR-30%MUD
Rec. 15 Feet of GSY SLT OIL CUT MUD WTR-5%GAS- 5%OIL- 60%WTR- 30%MUD
Rec. _____ Feet of _____

BHT 96 °F Gravity 34 °API @ 50 °F Corrected Gravity 35 °API
RW 24 @ 55 °F Chlorides 40,000 ppm Recovery Chlorides 5,000 ppm System

(A) Initial Hydrostatic Mud 1512.71 PSI AK1 Recorder No. 2342 Range 4995

(B) First Initial Flow Pressure 17.70 PSI @ (depth) 3106 w / Clock No. _____

(C) First Final Flow Pressure 47.24 PSI AK1 Recorder No. 24174 Range 3050

(D) Initial Shut-in Pressure 1171.12 PSI @ (depth) 3114 w / Clock No. 23839

(E) Second Initial Flow Pressure 55.47 PSI AK1 Recorder No. _____ Range _____

(F) Second Final Flow Pressure 98.52 PSI @ (depth) _____ w / Clock No. _____

(G) Final Shut-in Pressure 1166.00 PSI Initial Opening 30 Final Flow 60

(H) Final Hydrostatic Mud 1501.29 PSI Initial Shut-in 60 Final Shut-in 60

Our Representative PAUL SIMPSON

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

Phone 913-625-5516, Hays, KS
 Phone 913-672-3471, Oakley, KS

15-141-20291-00-00
 Phone 316-886-5926, Medicine Lodge, KS
 Phone 913-798-3843, Ness City, KS

ALLIED CEMENTING CO., INC. 0007090

Home Office P. O. Box 31

Russell, Kansas 67665

ORIGINAL

New

Date	1-10-95	Sec.	2	Twp.	10	Range	12	Called Out		On Location		Job Start		Finish	12:15AM
Lease	Single Trust	Well No.	2	Location				Luray 5N 3E 12N			County	Osborne	State	Ks	
Contractor	Sheldahl Dig				Owner				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.						
Type Job	Surface				Charge To				Russell Oil Inc						
Hole Size	12 1/4		T.D.		247		Street								
Csg.	8 1/2		Depth		244		City				State				
Tbg. Size			Depth				The above was done to satisfaction and supervision of owner agent or contractor.								
Drill Pipe			Depth				Purchase Order No.								
Tool			Depth				X				Burtan Beery				
Cement Left in Csg.	10 15		Shoe Joint				CEMENT								
Press Max.			Minimum				Amount Ordered				160 ⁶⁰ 40 3% CC 2% gel				
Meas Line	23#		Displace		14 3/4 BBL		Consisting of								
Perf.							Common								

EQUIPMENT

Pumptrk	No.	Cementer	Dave
	153	Helper	
Pumptrk	No.	Cementer	Paul
		Helper	
Bulktrk		Driver	
	160	Driver	

DEPTH of Job

Reference:	Pump trk chg	
	23# Per mile	
	8' wooden plug	
	Sub Total	
	Tax	
	Total	

Remarks:

Cement in cellar

Handling		Sales Tax	
Mileage		Sub Total	
Floating Equipment		Total	

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

15-141-20291-00-00
 Phone Plainville 913-434-2812
 Phone Ness City 913-798-3843

ALLIED CEMENTING CO., INC.

Home Office P. O. Box 31 Russell, Kansas 67665

3905

ORIGINAL

New

Date	1-25-95	Sec.	2	Twp.	10	Range	12	Called Out	11:05AM	On Location	1:00PM	Job Start	2:00PM	Finish	3:30PM
Lease	Single Well No. # 2			Location				Lurray 5N 2E 1N		Osborne		Kansas			
Contractor	Rapid Well Service														
Type Job	Squeeze														
Hole Size	7 7/8			T.D.											
Csg.	5 1/2			Depth											
Tbg. Size	2"			Depth			3065								
Drill Pipe				Depth											
Tool	Reinhardt			Depth											
Cement Left in Csg.				Shoe Joint											
Press Max.	1500			Minimum											
Meas Line				Displace											
Perf.	314. 21														

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: Russell Oil
 Street: P.O. Box 272
 City: Russell State: Kansas 67665
 The above was done to satisfaction and supervision of owner agent or contractor.

Purchase Order No. _____
 X *Redupberg*

CEMENT

Amount Ordered: 150 Common
 Consisting of:
 Common 150 6.10 915.00
 Poz. Mix _____
 Gel. _____
 Chloride _____
 Quickset _____

Handling	105	157.50
Mileage 31m	.04	186.00
	Sub Total	1258.50
	Total	

EQUIPMENT

Pumptrk	No.	Cementer	B. Leierman
	279	Helper	
Pumptrk	No.	Cementer	RDavis
		Helper	
Bulktrk		Driver	
	155	Driver	

DEPTH of Job

Reference:		1030.00
	235 Per Mile 31m	72.85
	Sub. Total	1102.85
	Tax	
	Total	

Remarks:

Floating Equipment

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

Phone 913-625-5516, Hays, KS
Phone 913-672-3471, Oakley, KS

15-141-20291-00-00
Phone 316-886-5926, Medicine Lodge, KS
Phone 913-798-3843, Ness City, KS

ALLIED CEMENTING CO., INC.

Home Office P. O. Box 31
Russell, Kansas 67665

7051
ORIGINAL

New

Date <i>2-2-95</i>	Sec.	Twp.	Range	Called Out	On Location	Job Start <i>11:00 AM</i>	Finish <i>12:50 PM</i>
Lease <i>Single Trust</i>	Well No. <i>2</i>	Location <i>Luray SN 350N</i>			County <i>Osborne</i>	State <i>Ks</i>	
Contractor <i>Rapid Well Service</i>				Owner			
Type Job <i>part collar</i>				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.			
Hole Size	T.D.			Charge To <i>Russell Oil Co.</i>			
Csg. <i>5 1/2"</i>	Depth			Street <i>P.O. Box 272</i>			
Tbg. Size <i>2"</i>	Depth			City <i>Russell</i> State <i>Kan 67665</i>			
Drill Pipe	Depth			The above was done to satisfaction and supervision of owner agent or contractor.			
Tool <i>Reinbart</i>	Depth			Purchase Order No.			
Cement Left in Csg.	Shoe Joint			X			
Press Max.	Minimum			CEMENT			
Meas Line	Displace			Amount Ordered <i>17580 6 1/2 gal</i>			
Perf.				Consisting of <i>Used 120</i>			

EQUIPMENT

No.	Cementer	<i>Dave Mark</i>
Pumptrk <i>153</i>	Helper	
No.	Cementer	<i>Paul</i>
Pumptrk	Helper	
	Driver	
Bulktrk <i>160</i>	Driver	

DEPTH of Job

Reference:	<i>Pump trk chg</i>	<i>550.00</i>
	<i>235 Per mile</i>	<i>32m 75.20</i>
	Sub Total	<i>625.20</i>
	Tax	
	Total	

Remarks: *Cement Cir*
Witness By Dan W. [Signature] Paul [Signature]

Common	<i>72</i>	<i>610</i>	<i>439.20</i>
Poz. Mix	<i>48</i>	<i>315</i>	<i>151.20</i>
Gel.	<i>6</i>	<i>9.50</i>	<i>57.00</i>
Chloride			
Quickset			
Handling		<i>105</i>	<i>183.75</i>
Mileage	<i>32 m</i>	<i>.04</i>	<i>224.00</i>
		Sub Total	<i>1055.15</i>
		Total	
Floating Equipment			