

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

**ORIGINAL**

API NO. 15- 141-20,328-00700  
County Osborne  
NE - NE - SE Sec. 6 Twp. 10 Rge. 12 X W

Operator: License # 5184 (Was 3345)

Name: Shields Oil Producers, Inc.

Address Shields Bldg.

Was Leroy E. Tobias, Bunker Hill, KS

City/State/Zip Russell, KS 67665

Purchaser: None

Operator Contact Person: Burton Beery

Phone (913) 483-3141

Contractor: Name: Shields Drlg., Co.

License: 5184

Wellsite Geologist: Francis Whisler

Designate Type of Completion

New Well  Re-Entry  Workover

Oil  SWD  SIOW  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  PSTD  
 Commingled  Docket No. \_\_\_\_\_  
 Dual Completion  Docket No. \_\_\_\_\_  
 Other (SWD or Inj?)  Docket No. \_\_\_\_\_

12-10-96 12-18-96 1-30-97  
Spud Date Date Reached YD Completion Date

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

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

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

Lease Name Steinle-Yarnell Well # 1

Field Name: Wildcat

Producing Formation None

Elevation: Ground 1779 KS 1784

Total Depth 3350 PSTD None

Amount of Surface Pipe Set and Cemented at 209 Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set 927 Feet

If Alternate II completion, cement circulated from \_\_\_\_\_

feet depth to \_\_\_\_\_ w/ \_\_\_\_\_ sx cat.

Drilling Fluid Management Plan D&A JH 11-10-97  
(Data must be collected from the Reserve Pit)

Chloride content 75,000 ppm Fluid volume 375 bbls

Dewatering method used Evaporation

Location of fluid disposal if hauled offsite \_\_\_\_\_

Operator Name \_\_\_\_\_

Lease Name \_\_\_\_\_ License No. \_\_\_\_\_

Quarter Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. Rng. \_\_\_\_\_ E/W

County \_\_\_\_\_ Docket No. \_\_\_\_\_

RECEIVED  
KANSAS CORP COM  
FEB 21 P 15  
8-21-97

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.

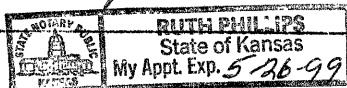
Signature Burton Beery

Title Superintendent Date 2-20-97

Subscribed and sworn to before me this 20th day of February, 19 97.

Notary Public Ruth Phillips

Date Commission Expires \_\_\_\_\_



K.C.C. OFFICE USE ONLY	
F	<input type="checkbox"/> Letter of Confidentiality Attached
C	<input checked="" type="checkbox"/> Wireline Log Received
C	<input checked="" type="checkbox"/> Geologist Report Received
Distribution	
<input checked="" type="checkbox"/> KCC	<input type="checkbox"/> SWD/Rep <input type="checkbox"/> NGPA
<input type="checkbox"/> KGS	<input type="checkbox"/> Plug <input type="checkbox"/> Other
(Specify)	

Operator Name Shields Oil Producers, Inc. Lease Name Steinle-Yarnell Well # 1

East  
 West

County Osborne

Sec. 6 Twp. 10 Rgw. 12

**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  Yes  No  
(Attach Additional Sheets.)

Samples Sent to Geological Survey  Yes  No

Cores Taken  Yes  No

Electric Log Run  Yes  No  
(Submit Copy.)

List All E.Logs Run:

Eli Radiation - Guard

Log Formation (Top), Depth and Datum  Sample

Name	Top	Datum
Anhydrite	894	+ 890
Howard Lime	2714	- 930
Topeka Lime	2751	- 967
Heebner Shale	3082	-1198
Toronto Lime	3005	-1221
Lansing - KC	3038	-1254
Total Depth	3349	-1565

**CASING RECORD**

New  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	% and Percent Additives
Surface	12 1/4	8 5/8	20	209	60-40 POZ Mix	150	2% Gel 3% C.C.
Production	7 7/8	4 1/2	10.5	3221	ASC	125	10% Salt

**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	3022 - 3165	Common	150	5% Gilsonite
<input type="checkbox"/> Plug Back TD				
<input checked="" type="checkbox"/> Plug Off Zone	3022 - 3180	Common	250	5% Gilsonite
	3022-3180	Common	150	5% Gilsonite

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squ. Record (Amount and Kind of Material Used)	Depth
4	3087 - 3091	500 gal. - 15%; 1000 gal 15%	3091
3	3087 - 3091	500 gal. - 15%; 2000 gal 28%	3091
4	3087 - 3091	500 gal. - 15%	3091
2 slots	3088-3090	500 gal. - 15% 1000 gal 15%	3090
4	3070-3072	500 gal. - 15%	3072

TUBING RECORD	Size	Set At	Packer At	Liner Run <input type="checkbox"/> Yes <input type="checkbox"/> No

Date of First, Resumed Production, SWD or Inj. Non-Commercial - To Plug Producing Method  Flowing  Pumping  Gas Lift  Other (Explain)

Estimated Production Per 24 hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

Disposition of Gas:

Vented  Sold  Other (If vented, submit A

**METHOD OF COMPLETION**

Open Hole  Perf.  Dually Comp.  Commingled  
 Other (Specify)

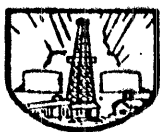
Production Interval

# Shields

# ORIGINAL

OIL PRODUCERS, INC.

R. L. SHIELDS, President



Russell, Kansas

15-141-20328-0000

### FORM ACO-1 DRILL STEM TESTS

SHIELDS OIL PRODUCERS, INC. LEASE Steinle-Yarnell #1

D.S.T. #1 3017-3053 Times: 30-60-30-60

I.H.P. \_\_\_\_\_ I.F.P. 33-33 I.S.I.P. 92

F.F.P. 33-33 F.S.I.P. 42 F.H.P. \_\_\_\_\_

Recovery: 10' Slight Oil Cut Mud with free oil on top

D.S.T. #2 3049-3097 Times: 15-60-30-60

I.H.P. 1495 I.F.P. 84-84 I.S.I.P. 1117

F.F.P. 143-159 F.S.I.P. 1042 F.H.P. 1480

Recovery: 400' of gas - 15' Clean Oil - 240' Muddy, gassy oil

D.S.T. #3 \_\_\_\_\_ Times: \_\_\_\_\_

I.H.P. \_\_\_\_\_ I.F.P. \_\_\_\_\_ I.S.I.P. \_\_\_\_\_

F.F.P. \_\_\_\_\_ F.S.I.P. \_\_\_\_\_ F.H.P. \_\_\_\_\_

Recovery: \_\_\_\_\_

D.S.T. #4 \_\_\_\_\_ Times: \_\_\_\_\_

I.H.P. \_\_\_\_\_ I.F.P. \_\_\_\_\_ I.S.I.P. \_\_\_\_\_

F.F.P. \_\_\_\_\_ F.S.I.P. \_\_\_\_\_ F.H.P. \_\_\_\_\_

Recovery: \_\_\_\_\_

D.S.T. #5 \_\_\_\_\_ Times: \_\_\_\_\_

I.H.P. \_\_\_\_\_ I.F.P. \_\_\_\_\_ I.S.I.P. \_\_\_\_\_

F.F.P. \_\_\_\_\_ F.S.I.P. \_\_\_\_\_ F.H.P. \_\_\_\_\_

Recovery: \_\_\_\_\_

D.S.T. #6 \_\_\_\_\_ Times: \_\_\_\_\_

I.H.P. \_\_\_\_\_ I.F.P. \_\_\_\_\_ I.S.I.P. \_\_\_\_\_

F.F.P. \_\_\_\_\_ F.S.I.P. \_\_\_\_\_ F.H.P. \_\_\_\_\_

Recovery: \_\_\_\_\_

RECEIVED  
KANSAS CORP COMM  
1977 FEB 21 P 1:15  
2-21-97

15-141-20328-00-00

# ALLIED CEMENTING CO., INC. 7111

REMIT TO P.O. BOX 31  
RUSSELL, KANSAS 67665

## ORIGINAL

SERVICE POINT: Russell

DATE <u>12-17-96</u>	SEC. <u>6</u>	TWP. <u>10 S</u>	RANGE <u>12 W</u>	CALLED OUT <u>8:00 AM</u>	ON LOCATION <u>10:00 AM</u>	JOB START <u>2:45 AM</u>	JOB FINISH <u>3:45 AM</u>
LEASE <u>STEINLE</u>	WELL # <u>1</u>	LOCATION <u>LURAY 6 1/2 N 1/4 W-T into</u>			COUNTY <u>OSAGE</u>	STATE <u>KANSAS</u>	

OLD OR NEW (Circle one) NEW

CONTRACTOR <u>SHIELDS DRUG RIG #2</u>	OWNER <u>Same</u>
TYPE OF JOB <u>PRODUCTION STRING</u>	CEMENT
HOLE SIZE <u>7 7/8</u> T.D. <u>3350'</u>	
CASING SIZE <u>4 1/2 10 1/2 #</u> DEPTH <u>3221'</u>	AMOUNT ORDERED <u>150 SK ASC. 10% SALT</u>
TUBING SIZE <u>8 5/8 SURFACE</u> DEPTH <u>209'</u>	<u>500 GAL WFR-2 FLUSH</u>
PIPE <u>AFU INSERT @</u> DEPTH <u>3187'</u>	
TOOL <u>PORT COLLAR @</u> DEPTH <u>927'</u>	
PRES. MAX _____ MINIMUM _____	COMMON _____ @ _____
MEAS. LINE _____ SHOE JOINT <u>34'</u>	POZMIX _____ @ _____
CEMENT LEFT IN CSG. <u>34' 50 1/2 @</u>	GEL _____ @ _____
PERFS. _____	CHLORIDE _____ @ _____

**EQUIPMENT**

PUMP TRUCK # <u>177</u>	CEMENTER <u>[Signature]</u>
	HELPER <u>Will</u>
BULK TRUCK # <u>213</u>	DRIVER <u>Darin</u>
BULK TRUCK # _____	DRIVER _____

S.J.T. <u>14</u>	@ <u>7 00</u>	<u>98 00</u>
WFR-2 <u>500 gals</u>	@ <u>1 00</u>	<u>500 00</u>
ASC <u>150</u>	@ <u>7 85</u>	<u>1177 50</u>
HANDLING _____	@ _____	_____
MILEAGE <u>4 1/2 hr / mile</u>	@ <u>1 05</u>	<u>157 50</u>
		TOTAL <u>2113 00</u>

**REMARKS:**

FLOAT HELD

15 SK @ PAT HOLE

10 SK @ MOUSE HOLE

THANK'S

**SERVICE**

DEPTH OF JOB _____		
PUMP TRUCK CHARGE _____		<u>1030 00</u>
EXTRA FOOTAGE _____ @ _____		_____
MILEAGE <u>30</u> @ <u>2 85</u>		<u>85 50</u>
PLUG <u>4 1/2 RUBBER</u> @ _____		<u>38 00</u>
		TOTAL <u>1153 50</u>

CHARGE TO: SHIELDS OIL PRODUCER'S (LEROY TOBIAS)

STREET Shields Bldg

CITY Russell STATE KANSAS ZIP 67665

**BAKER FLOAT EQUIPMENT**

GUIDE SHOE _____ @ _____	<u>140 00</u>
AFU INSERT _____ @ _____	<u>235 00</u>
PORT COLLAR _____ @ _____	<u>2340 00</u>
7-CENTRALIZERS _____ @ <u>53 00</u>	<u>371 00</u>
2-BASKET _____ @ <u>129 00</u>	<u>258 00</u>
	TOTAL <u>3354 00</u>

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 is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read & understand the "TERMS AND CONDITIONS" listed on the reverse side.

TAX \_\_\_\_\_

TOTAL CHARGE \_\_\_\_\_

DISCOUNT \_\_\_\_\_ IF PAID IN 30 DAYS

SIGNATURE Barbara Beary

# ALLIED CEMENTING CO., INC. 5248

REMIT TO P.O. BOX 31  
RUSSELL, KANSAS 67665

## ORIGINAL

SERVICE POINT: R

DATE <u>12-10-96</u>	SEC. <u>6</u>	TWP. <u>10<sup>s</sup></u>	RANGE <u>12<sup>w</sup></u>	CALLED OUT	ON LOCATION <u>10:45 PM</u>	JOB START	JOB FINISH <u>2:00 AM</u>
LEASE <u>Staircase-40' well</u>	WELL # <u>1</u>	LOCATION <u>Lacey 6 1/2 N W.S</u>			COUNTY <u>Osborne</u>	STATE <u>Ks</u>	

OLD OR NEW (Circle one)

CONTRACTOR Shield Drly  
 TYPE OF JOB Surface  
 HOLE SIZE 12 1/4 T.D. 212  
 CASING SIZE 8 1/2 DEPTH 209  
 TUBING SIZE \_\_\_\_\_ DEPTH \_\_\_\_\_  
 DRILL PIPE \_\_\_\_\_ DEPTH \_\_\_\_\_  
 TOOL \_\_\_\_\_ DEPTH \_\_\_\_\_  
 PRES. MAX \_\_\_\_\_ MINIMUM \_\_\_\_\_  
 MEAS. LINE \_\_\_\_\_ SHOE JOINT \_\_\_\_\_  
 CEMENT LEFT IN CSG. 10.15  
 PERFS. \_\_\_\_\_

OWNER \_\_\_\_\_ CEMENT \_\_\_\_\_

AMOUNT ORDERED 150 60/40 3% cc 2% gel

**EQUIPMENT**  
177  
 PUMP TRUCK CEMENTER Dave  
 # \_\_\_\_\_ HELPER Glenn  
 BULK TRUCK \_\_\_\_\_ DRIVER \_\_\_\_\_  
 # \_\_\_\_\_ DRIVER \_\_\_\_\_  
 BULK TRUCK \_\_\_\_\_ DRIVER Jason  
 # 213 DRIVER \_\_\_\_\_

COMMON \_\_\_\_\_ @ \_\_\_\_\_  
 POZMIX \_\_\_\_\_ @ \_\_\_\_\_  
 GEL \_\_\_\_\_ @ \_\_\_\_\_  
 CHLORIDE \_\_\_\_\_ @ \_\_\_\_\_  
 \_\_\_\_\_ @ \_\_\_\_\_  
 \_\_\_\_\_ @ \_\_\_\_\_  
 \_\_\_\_\_ @ \_\_\_\_\_  
 \_\_\_\_\_ @ \_\_\_\_\_  
 HANDLING \_\_\_\_\_ @ \_\_\_\_\_  
 MILEAGE \_\_\_\_\_ @ \_\_\_\_\_

TOTAL \_\_\_\_\_

### REMARKS:

### SERVICE

Approx 2'  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

DEPTH OF JOB \_\_\_\_\_  
 PUMP TRUCK CHARGE \_\_\_\_\_  
 EXTRA FOOTAGE \_\_\_\_\_ @ \_\_\_\_\_  
 MILEAGE \_\_\_\_\_ @ \_\_\_\_\_  
 PLUG 8 1/2 wooden \_\_\_\_\_ @ \_\_\_\_\_  
 \_\_\_\_\_ @ \_\_\_\_\_  
 \_\_\_\_\_ @ \_\_\_\_\_

TOTAL \_\_\_\_\_

CHARGE TO: Leroy F Tobias  
 STREET \_\_\_\_\_  
 CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

### FLOAT EQUIPMENT

\_\_\_\_\_ @ \_\_\_\_\_  
 \_\_\_\_\_ @ \_\_\_\_\_  
 \_\_\_\_\_ @ \_\_\_\_\_  
 \_\_\_\_\_ @ \_\_\_\_\_  
 \_\_\_\_\_ @ \_\_\_\_\_

TOTAL \_\_\_\_\_

TAX \_\_\_\_\_  
 TOTAL CHARGE \_\_\_\_\_  
 DISCOUNT \_\_\_\_\_ IF PAID IN 30 DAYS

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 is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read & understand the "TERMS AND CONDITIONS" listed on the reverse side.

SIGNATURE Ernest P. Beck

# ALLIED CEMENTING CO., INC. 7450

## ORIGINAL

REMIT TO P.O. BOX 31  
RUSSELL, KANSAS 67665

SERVICE POINT: Russell

DATE <u>1-7-98</u>	SEC.	TWP.	RANGE	CALLED OUT	ON LOCATION <u>10 AM</u>	JOB START	JOB FINISH <u>1 PM</u>
LEASE <u>Steink</u>	WELL# <u>1</u>	LOCATION <u>Lurray 7N</u>			COUNTY <u>Osborne</u>	STATE <u>Kan</u>	

OLD OR NEW (Circle one)

CONTRACTOR Tom's Well Ser.

TYPE OF JOB Squeeze

HOLE SIZE \_\_\_\_\_ T.D. \_\_\_\_\_

CASING SIZE \_\_\_\_\_ DEPTH \_\_\_\_\_

TUBING SIZE \_\_\_\_\_ DEPTH \_\_\_\_\_

DRILL PIPE \_\_\_\_\_ DEPTH \_\_\_\_\_

TOOL \_\_\_\_\_ DEPTH \_\_\_\_\_

PRES. MAX \_\_\_\_\_ MINIMUM \_\_\_\_\_

MEAS. LINE \_\_\_\_\_ SHOE JOINT \_\_\_\_\_

CEMENT LEFT IN CSG. \_\_\_\_\_

PERFS. \_\_\_\_\_

OWNER \_\_\_\_\_ CEMENT \_\_\_\_\_

AMOUNT ORDERED 150 Com 5% Gil

COMMON	<u>150 @ 6.10</u>	<u>915.00</u>
POZMIX	@ _____	_____
GEL	@ _____	_____
CHLORIDE	@ _____	_____
<u>Gil</u>	<u>705 @ 41</u>	<u>289.05</u>
_____	@ _____	_____
_____	@ _____	_____
_____	@ _____	_____
HANDLING	@ <u>105</u>	<u>157.50</u>
MILEAGE <u>29m</u>	<u>04</u>	<u>174.00</u>

### EQUIPMENT

PUMP TRUCK CEMENTER McAdoo

# 177 HELPER Will H

BULK TRUCK

# 282 DRIVER Jason

BULK TRUCK

# \_\_\_\_\_ DRIVER \_\_\_\_\_

TOTAL 1535.55

### REMARKS:

Injection Rate 3BPM 800\*\*

Mixed 150 Com 5% Gil Spaced

9T 2000# Washed around Tool, Pulled

5 JTs Pres up to 1000\*\* Held Shut

in at 1000\*\*

Thanks

### SERVICE

DEPTH OF JOB	_____	_____
PUMP TRUCK CHARGE	_____	<u>550.00</u>
EXTRA FOOTAGE	@ _____	_____
MILEAGE <u>29</u>	@ <u>2.85</u>	<u>82.65</u>
PLUG	@ _____	_____
_____	@ _____	_____
_____	@ _____	_____

TOTAL 632.65

CHARGE TO: Shields Oil Prod.

STREET Shields Bldg

CITY Russell STATE Kan ZIP 67665

### FLOAT EQUIPMENT

_____	@ _____	_____
_____	@ _____	_____
_____	@ _____	_____
_____	@ _____	_____
_____	@ _____	_____

TOTAL \_\_\_\_\_

TAX \_\_\_\_\_

TOTAL CHARGE \_\_\_\_\_

DISCOUNT \_\_\_\_\_ IF PAID IN 30 DAYS

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 is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read & understand the "TERMS AND CONDITIONS" listed on the reverse side.

SIGNATURE \_\_\_\_\_

# ALLIED CEMENTING CO., INC.

6762

REMIT TO P.O. BOX 31  
RUSSELL, KANSAS 67665

ORIGINAL

SERVICE POINT: R

DATE <u>1-13-97</u>	SEC.	TWP.	RANGE	CALLED OUT	ON LOCATION	JOB START	JOB FINISH
LEASE <u>Steinkamp-Yorrell</u>	WELL # <u>1</u>	LOCATION <u>Lurey GN WTS</u>			COUNTY <u>Osborne</u>	STATE <u>Ks</u>	<u>4:15 PM</u>

OLD OR NEW (Circle one)

CONTRACTOR <u>Toms Well Service</u>
TYPE OF JOB <u>Squeeze</u>
HOLE SIZE _____ T.D. _____
CASING SIZE <u>4 1/2</u> DEPTH _____
TUBING SIZE <u>2"</u> DEPTH _____
DRILL PIPE _____ DEPTH _____
TOOL <u>Reinbar</u> DEPTH <u>3022</u>
PRES. MAX _____ MINIMUM _____
MEAS. LINE _____ SHOE JOINT _____
CEMENT LEFT IN CSG. _____
PERFS. _____

OWNER \_\_\_\_\_ CEMENT \_\_\_\_\_

AMOUNT ORDERED used 250 com 5% gilsonite

COMMON	<u>250</u>	@	<u>610</u>	<u>1525.00</u>
POZMIX		@		
GEL		@		
CHLORIDE		@		
<u>Cil</u>	<u>1175</u>	@	<u>41</u>	<u>481.75</u>
		@		
		@		
		@		
		@		
HANDLING		@	<u>10.5</u>	<u>262.50</u>
MILEAGE <u>29m</u>			<u>9</u>	<u>290.00</u>

### EQUIPMENT

<u>177</u> PUMP TRUCK CEMENTER <u>Dave</u>
# _____ HELPER <u>Glen</u>
BULK TRUCK _____
# _____ DRIVER _____
BULK TRUCK _____
# <u>160</u> DRIVER <u>Bob L</u>

TOTAL 2559.25

### REMARKS:

Injection Rate @ 4001 @ 0 psi  
Mixed 250 sl. Staged & squeezed  
@ 2000 psi. Wash around tool pulled  
3 hrs shut in @ 500 psi

### SERVICE

DEPTH OF JOB _____
PUMP TRUCK CHARGE _____ <u>550.00</u>
EXTRA FOOTAGE _____ @ _____
MILEAGE <u>29</u> @ <u>28.5</u> <u>826.5</u>
PLUG _____ @ _____
_____ @ _____
_____ @ _____

TOTAL 6326.5

CHARGE TO: Shields Oil Producers  
 STREET Shields Bldg  
 CITY Russell STATE Kan ZIP 67665

### FLOAT EQUIPMENT

_____ @ _____
_____ @ _____
_____ @ _____
_____ @ _____
_____ @ _____

TOTAL \_\_\_\_\_

TAX \_\_\_\_\_  
 TOTAL CHARGE \_\_\_\_\_  
 DISCOUNT \_\_\_\_\_ IF PAID IN 30 DAYS

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 is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read & understand the "TERMS AND CONDITIONS" listed on the reverse side.

SIGNATURE \_\_\_\_\_

# ALLIED CEMENTING CO., INC. 7178

REMIT TO P.O. BOX 31  
RUSSELL, KANSAS 67665

SERVICE POINT:  
Russell

## ORIGINAL

DATE <u>1-20-87</u>	SEC.	TWP.	RANGE	CALLED OUT	ON LOCATION <u>9:45 AM</u>	JOB START <u>10 AM</u>	JOB FINISH <u>1 PM</u>
LEASE <u>Stovine</u>	WELL# <u>1</u>	LOCATION <u>Lacey 7 1/2 N W Side</u>		COUNTY <u>Osborne</u>	STATE <u>Kan</u>		

OLD OR NEW (Circle one)

CONTRACTOR \_\_\_\_\_ OWNER Same

TYPE OF JOB Squeeze CEMENT

HOLE SIZE \_\_\_\_\_ T.D. \_\_\_\_\_

CASING SIZE 4 1/2 DEPTH \_\_\_\_\_

TUBING SIZE 2" DEPTH 30 22

DRILL PIPE \_\_\_\_\_ DEPTH \_\_\_\_\_

TOOL \_\_\_\_\_ DEPTH \_\_\_\_\_

PRES. MAX \_\_\_\_\_ MINIMUM \_\_\_\_\_

MEAS. LINE \_\_\_\_\_ SHOE JOINT \_\_\_\_\_

CEMENT LEFT IN CSG. \_\_\_\_\_

PERFS. 3087

AMOUNT ORDERED 150 Cum

COMMON	<u>150</u>	@	<u>6.10</u>	<u>915.00</u>
POZMIX		@		
GEL		@		
CHLORIDE		@		
		@		
		@		
		@		
		@		
		@		
HANDLING		@	<u>1.05</u>	<u>157.50</u>
MILEAGE	<u>44/21 Mile</u>			<u>180.00</u>
TOTAL				<u>1252.50</u>

### EQUIPMENT

PUMP TRUCK CEMENTER M. Adoo

# 279 HELPER Bill L

BULK TRUCK

# 213 DRIVER Jason

BULK TRUCK

# \_\_\_\_\_ DRIVER \_\_\_\_\_

### REMARKS:

Mixed 150 SKs Squeezed  
at 1000'  
Int Rate 2 BPM 90'  
Washed ground Packer  
Shut in at 700'

### SERVICE

DEPTH OF JOB				
PUMP TRUCK CHARGE				<u>550.00</u>
EXTRA FOOTAGE		@		
MILEAGE	<u>30</u>	@	<u>2.85</u>	<u>85.50</u>
PLUG		@		
		@		
		@		
TOTAL				<u>635.50</u>

CHARGE TO: Shields Oil Prod.

STREET Shields Bldg

CITY Russell STATE Kan ZIP 67665

### FLOAT EQUIPMENT

	@			
	@			
	@			
	@			
	@			
TOTAL				

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 is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read & understand the "TERMS AND CONDITIONS" listed on the reverse side.

TAX \_\_\_\_\_

TOTAL CHARGE \_\_\_\_\_

DISCOUNT \_\_\_\_\_ IF PAID IN 30 DAYS

SIGNATURE M. Adoo



# ORIGINAL

COMPANY Leroy Tobias FARM Steinle - Yarnell WELL NO. 1  
 SEC. TWP. .RGE. LOC. COUNTY Osworne STATE Ks.  
 CONTRACTOR Shields Drilling Co. SIZE HOLE 7 7/8 DRILL PIPE 4 1/2  
 REMARKS: SIZE PUMP LINERS 6 LENGTH STROKE 14

15-141-20328-00-00

DATE

DEPTH	TIME O'CLOCK	MIN.	REMARKS
<del>2700</del>	<del>6:44</del>		
01	51	2	
	53	2	
	55	2	
	56	1	
05	58	2	
	7:01	3	
	04	3	
	06	2	
	07	1	
2710	08	1	
	10	2	
	11	1	
	12	1	
	13	1	
15	14	1	
	16	2	
	19	3	Conn.
	<del>2:29</del>	3	
	32	3	
2720	36	4	
	39	3	
	43	4	
	46	3	
	49	3	
25	52	3	
	56	4	
	8:00	4	
	04	4	
	07	3	
2730	09	2	
	13	4	
	15	2	
	19	4	
	21	2	
35	25	4	
	28	3	
	32	4	
	35	3	
	38	3	
2740	41	3	
	45	4	
	48	3	
	51	3	
	53	2	
45	54	1	
	55	1	
	56	1	
	58	2	Conn.
	<del>9:03</del>		
	04	1	
2750	05	1	

DEPTH	TIME O'CLOCK	MIN.	REMARKS
<del>2750</del>	<del>9:05</del>		
51	06	1	
	07	1	
	10	3	
	12	2	
55	13	1	
	16	3	
	19	3	
	21	2	
	23	2	
2760	27	4	
	31	4	
	34	3	
	37	3	
	40	3	
65	43	3	
	47	4	
	50	3	
	53	3	
	56	3	
2770	58	2	
	10:01	3	
	03	2	
	06	3	
	09	3	
75	11	2	
	14	3	
	16	2	
	20	4	
	23	3	Conn.
2780	<del>27</del> 29	2	
	33	4	
	37	4	
	41	4	
	45	4	
85	49	4	
	51	2	
	54	3	
	55	1	
	57	2	
2790	11:00	3	
	02	2	
	04	2	
	06	2	
	09	3	
95	12	3	
	16	4	
	20	4	
	24	4	
	27	3	
2800	31	4	

RECEIVED  
 KANSAS CORP COMM  
 1997 FEB 21 P 1:15

15-141-20328-00-00

COMPANY LeRoy Tobias FARM Steinte Yarnell WELL NO. 1  
 SEC.      TWP.      RGE.      LOC.      COUNTY Osborne STATE KS  
 CONTRACTOR Shields Drilling SIZE HOLE 7 7/8 DRILL PIPE 4 1/2  
 REMARKS: SIZE PUMP LINERS 6 LENGTH STROKE 141

DATE

DEPTH	TIME O'CLOCK	MIN.	REMARKS
<del>2800</del>	<del>31</del>	<del>35</del>	
	39	4	
	43	4	
	47	4	
05	50	3	
	54	4	
	57	3	
	12:02	5	
	03	3	
10	08	3	
	11	3	CONN.
	<del>23</del>	3	
	27	4	
	31	4	
15	34	3	
	38	4	
	43	5	
	48	5	
	52	4	
20	55	3	
	59	4	
	2:03	4	
	06	3	
	09	3	
25	11	2	
	14	3	
	15	1	
	17	2	
	19	2	
30	21	2	
	24	3	
	26	2	
	28	2	
	31	3	
35	33	2	
	35	2	
	38	3	
	41	3	
	44	3	
40	47	3	
	42	2	CONN.
	<del>58</del>	2	
	01	3	
	06	5	
45	08	2	
	11	3	
	14	3	
	18	4	
	22	4	
50	26	4	

DEPTH	TIME O'CLOCK	MIN.	REMARKS
<del>2850</del>	<del>26</del>	<del>3</del>	
	33	4	
	35	2	
	38	3	
55	41	3	
	45	3	
	50	5	
	55	5	
	3:00	5	
60	05	5	
	09	4	
	12	3	
	14	2	
	15	1	
65	17	2	
	19	2	
	20	1	
	23	3	
	25	2	
70	27	2	
	3:1	4	
	3:5	4	CONN.
	<del>4:5</del>	4	
	4:8	3	
75	07	3	
	5:5	4	
	5:8	3	
	4:01	3	
	04	3	
80	08	4	
	11	3	
	15	4	
	19	4	
	24	5	
85	27	3	
	30	3	
	34	4	
	37	3	
	42	5	
90	46	4	
	50	4	
	54	4	
	58	4	
	5:02	4	
95	05	3	
	10	5	
	14	4	
	20	6	
	24	4	
2900	28	4	

COMPANY Le Roy Tobias FARM Steinle-Yarnell WELL NO. 1  
 SEC. TWP. RGE. LOC. COUNTY Osborne STATE Ks  
 CONTRACTOR Shields Drilling SIZE HOLE 2 7/8 DRILL PIPE 4 1/2  
 REMARKS: SIZE PUMP LINERS 6" LENGTH STROKE 24"

ORIGINAL

DEPTH	TIME O'CLOCK	MIN.	REMARKS
<del>2900</del>	<del>2:28</del>		
	33	5	Vis-47
	38	5	WT-8.8
	43	5	CONN.
	<del>48</del>	4	
05	58	5	
	1:03	5	
	08	5	
	12	4	
	15	3	
10	17	2	
	22	5	
	27	5	
	32	5	
	37	5	
15	42	5	
	47	5	
	51	4	
	56	5	
	7:02	6	
20	6	4	
	10	4	
	12	2	
	16	4	
	20	4	
25	24	4	
	28	4	
	32	4	
	36	4	
	41	5	
30	46	5	
	51	5	
	56	5	
	7:00	4	
	4	4	CONN.
35	19	4	
	22	3	
	25	3	
	28	3	
	33	5	
40	37	4	
	41	4	
	44	3	
	47	3	
	51	4	
45	55	4	
	59	4	
	9:01	2	
	3	2	
	5	2	
50	7	2	

DEPTH	TIME O'CLOCK	MIN.	REMARKS
<del>2950</del>	<del>9:07</del>		
	10	3	
	13	3	
	16	3	
	19	3	
55	21	2	
	24	3	
	27	3	
	30	3	
	32	2	
60	34	2	
	36	2	
	38	2	
	40	2	conn
	47/48	1	Vis 43 WT 8.9 WL 6.2
65	50	2	
	52	2	
	55	3	
	59	4	
	10:03	4	
70	07	4	
	10	3	
	13	3	
	16	3	
	20	4	
75	23	3	
	27	4	
	30	3	
	33	3	
	37	4	
80	41	4	
	45	4	
	49	4	
	54	5	
	59	5	Hb 2984 1284
85	11:02	3	-1200
	4	2	
	6	2	
	11	5	
	17	6	
90	23	4	
	26	4	
	31	4	
	34	3	
	37	3	
95	41	4	conn
	49/51	2	
	54	3	
	56	2	
	59	3	
3000	12:02	3	

15-141-20328-00-00

COMPANY Leroy Tobias FARM Steinle - Farnall WELL NO. 1  
 SEC. TWP. RGE. LOC. COUNTY Osborne STATE Ks  
 CONTRACTOR Shields Drilling SIZE HOLE 2 7/8 DRILL PIPE 4 1/2  
 REMARKS: SIZE PUMP LINERS 6 LENGTH STROKE 14

DATE

DEPTH	TIME O'CLOCK	MIN.	REMARKS
<del>3000</del>	<del>1202</del>		
	5	3	
	8	3	
	10	2	
	12	2	
5	15	3	
	17	2	
	20	3	
	23	3	
	27	4	
3010	31	4	
	36	5	
	41	5	
	46	5	
	51	5	
15	55	4	
	59	4	
	104	5	
	9	5	
	13	4	
3020	15	2	
	17	2	
	19	2	
	22	3	WT 8.9
	25	3	Vis 46
20	29	4	conn
	36/38	2	
	41	3	
	43	2	
	46	3	
3030	48	2	
	50	2	
	53	3	
	55	2	
	57	2	
35	59	2	
	200	1	
	2	2	
	5	3	
	7	2	
3040	9	2	
	15	6	
	19	4	
	23	4	
	28	5	
45	33	5	
	38	5	
	42	4	
	45	3	
	50	5	
3050	54	4	

DEPTH	TIME O'CLOCK	MIN.	REMARKS
<del>3050</del>	<del>2:54</del>		
	58	4	
	3:03	5	
	06	3	CFS DST #1
	<del>35</del>	4	36' Anchor
55	54	4	Call me on block
	4:00	6	
	04	4	conn
	11/14	3	
	18	4	
3060	23	5	
	29	6	
	35	6	
	40	3	
	46	5	
65	48	3	
	52	4	
	55	3	
	57	2	
	5:02	5	
3070	04	5	
	14	7	
	21	7	
	24	3	
	26	2	
75	28	2	wake Cool
	30	2	
	34	4	Vis-45
	38	4	WT 9.0
	44	6	
3080	49	5	CFS
	7 04/10	6	
	15	5	
	20	5	
	24	4	
85	29	5	
	34	5	
	39	5	CONN
	3/4	1	
	1/2	1/2	
2000	5	5	
	6	1	
	7	1	
	8	1	
	12	4	
95	17	5	
	21	4	
	26	5	DST #2
	<del>42</del>	3	48' Anchor
	48	3	
3100	52	4	

COMPANY Leroy Tobias FARM Steinle-Yarnell WELL NO. 1  
 SEC.      TWP.      RGE.      LOC.      COUNTY Osborne STATE MS.  
 CONTRACTOR Shields Drilling Co SIZE HOLE 7 7/8 DRILL PIPE 4 1/2  
 REMARKS:      SIZE PUMP LINERS 6 LENGTH STROKE 14

ORIGINAL

DATE

DEPTH	TIME O'CLOCK	MIN.	REMARKS
<del>3100</del>	<del>6:55</del>	<del>4</del>	
01	7:01	5	
	06	5	
	10	4	
05	14	4	
	18	4	
	22	4	
	27	5	
	32	5	
3110	36	4	
	40	4	
	44	4	
	48	4	
	51	3	
15	56	4	
	8:00	4	
	05	5	
	10	5	Conn. Ser Rig
	<del>22</del>	<del>2</del>	
3120	26	2	
	30	4	
	35	5	
	40	5	
	45	5	
25	49	4	
	53	4	
	58	5	
	9:03	5	
	07	4	
3130	11	4	
	16	5	
	21	5	
	25	4	
	30	5	
35	35	5	
	39	4	
	43	4	
	45	2	
	50	5	
3140	55	5	
	59	4	
	10:03	4	
	08	5	
	13	5	
45	17	4	
	21	4	
	22	1	
	25	3	
	27	2	
3150	<del>30</del>	<del>3</del>	Conn.
	35	3	

DEPTH	TIME O'CLOCK	MIN.	REMARKS
<del>3150</del>	<del>10:35</del>	<del>3</del>	
51	41	3	
	45	4	
	47	2	
55	50	3	
	52	2	
	54	2	
	57	3	
	11:00	3	
3160	07	4	
	08	4	
	11	3	
	13	2	
	14	1	
65	15	1	
	16	1	
	18	1	
	19	1	
	20	1	
3170	21	1	
	23	2	
	26	3	
	30	4	
	34	4	
75	38	4	
	43	5	
	47	4	
	51	4	
	55	4	
3180	12:00	5	
	04	4	CONN
	<del>17</del>	<del>4</del>	
	26	5	
	30	4	
85	34	4	
	38	4	Dis-48
	43	5	WT-8.9
	47	4	
	52	5	
3190	56	4	
	1:01	5	
	06	5	
	10	4	
	15	5	
95	18	3	
	23	5	
	26	3	
	30	4	
	33	3	
3200	37	4	

COMPANY Leroy E Tobias FARM Steinle & Yarnall WELL NO. S  
 SEC.      TWP.      RGE.      LOC.      COUNTY Doborne STATE Ks  
 CONTRACTOR Shields Drill SIZE HOLE 7 7/8 DRILL PIPE 4 1/2  
 REMARKS: SIZE PUMP LINERS 6 LENGTH STROKE 14

DATE

DEPTH	TIME O'CLOCK	MIN.	REMARKS
<del>3200</del>	<del>3:42</del>	<del>5</del>	
	45	3	
	48	3	
	51	3	
05	55	4	
	58	3	
	2:01	3	
	04	3	
	09	5	
10	12	3	
	16	4	
	19	3	CONN
	<del>24</del>	<del>3</del>	
	32	5	
15	35	3	
	40	5	
	44	4	
	48	4	
	52	4	
20	56	4	
	7:00	4	
	06	6	
	10	4	
	13	3	
25	16	3	
	19	3	
	24	5	
	28	4	
	32	4	
30	36	4	
	40	4	
	45	5	
	49	2	
	49	2	
35	52	3	
	56	4	
	4:00	4	
	05	5	
	10	5	
40	13	4	
	17	3	
	20	3	CONN.
	<del>25</del>	<del>3</del>	
	32	3	
45	34	2	
	36	2	
	38	2	
	41	3	
	46	5	
50	51	5	

DEPTH	TIME O'CLOCK	MIN.	REMARKS
<del>3200</del>	<del>5:01</del>	<del>5</del>	
	5:01	5	
	06	5	
	10	4	
55	14	4	
	20	6	
	24	4	
	28	4	
	32	4	
60	37	5	
	41	4	
	45	4	
	48	3	
	51	3	
65	54	3	
	58	4	
	6:03	5	
	08	5	
	12	4	
70	16	4	
	20	4	
	23	3	
	26	3	CONN
	<del>30</del>	<del>3</del>	
75	36	3	
	38	2	
	41	3	
	44	3	
	47	3	
80	50	3	
	53	3	
	56	3	
	7:00	3	
	4	3	
85	7	3	
	10	3	
	14	4	
	18	4	
	23	5	
90	27	4	
	32	5	
	37	5	
	42	5	
	47	5	
95	51	4	
	55	4	
	7:00	5	
	4	4	
	8	4	
3300	13	5	



FRANCIS C. WHISLER  
CERTIFIED PETROLEUM GEOLOGIST  
AAPG and APGS  
RUSSELL, KANSAS 67665

ORIGINAL



LEROY E. TOBIAS  
Bunker Hill, Kansas

&

SHIELDS OIL PRODUCERS, INC.  
Russell, Kansas

15-141-20328-00-00

GEOLOGICAL REPORT

STEINLE-YARNELL No. 1  
NE NE SE of Section 6  
Twp. 10 South, Rge. 12 West  
Osborne County, Kansas

December 19, 1996

RECEIVED  
KANSAS CORP COMM  
FEB 21 P 1:25



LEROY E. TOBIAS &  
SHIELDS OIL PRODUCERS, INC.

P. O. Box 709  
Russell, Kansas

Geological Report: Steinle-Yarnell No. 1  
NE NE SE of Sec. 6, T 10 S, R 12 W  
Osborne County, Kansas

Contractor: Shields Drilling Co., Inc.

Drilling Commenced: Dec. 10, 1996

Drilling Completed: Dec. 18, 1996

Casing Record: 8 5/8" surface casing set at 209'  
with 150 sacks cement.  
4 1/2" production casing set at  
3221' with 125 sacks cement.  
Port Collar set at 927'.

Samples: Saved and examined from 2700' to  
3350', RTD. Zones of interest are  
described in this report.

Drilling Time: Recorded and plotted from 2700' to  
3350', RTD. A copy of the drilling  
time-lithology log is included with  
this report.

Drillstem Tests: 2 by Swift Formation Testers

Electric Logs: Radiation-Guard-Caliper by ELI  
Wireline.

Elevations: Kelly Bushing: 1784'  
Ground Level: 1779  
Measurements From: K. B.

Formations:	Rotary Depths:	E. Log Depths:	E. Log Datums:
Anhydrite	896-929	894-928	+ 890
Howard Lime	2716	2714	- 930
Topeka Lime	2752	2751	- 967
Heebner Shale	3084	3082	-1198
Toronto Lime	3008	3005	-1221
Lansing-Kansas City	3040	3038	-1254
"C" Zone Porosity	3087	3086	-1302
Base of Kansas City	3343	3338	-1554
Total Depth	3350	3349	-1565

## Lithology, Zones of Interest &amp; Test Data: (E. Log Depths)

## Lansing-Kansas City:

3038-3050: LS-white, buff, fine crystalline, dense with trace  
 A zone of porosity. Very rare light oil stain with very  
 faint odor. No free oil. Tested by drillstem  
 test #1.

DRILLSTEM TEST No. 1: 3017 to 3053: 30-60-30-60 with weak  
 intermittent blow thru-out.

Recovery: 10' of slight oil cut mud  
 with show of free oil  
 on top.

IFP: 33-33  
 IBHP: 92  
 FFP: 33-33  
 FBHP: 42

3066-3076: LS-white, buff, crystalline, dense to slight porous.  
 B zone Some white, fine crystalline dolomite and some  
 fossil porosity. Some white and brown vitreous  
 chert. Only a trace of oil stain. No free oil  
 or odor. Tested by drillstem test #2.

3086-3092: LS-white, buff, brown, dense to oolitic and oolitic  
 C zone with good porosity and barren porosity. Rare stain,  
 poor saturation, very slight show of free heavy oil  
 but no odor. Tested by drillstem test #2.

DRILLSTEM TEST No. 2: 3049 to 3097: 15-60-30-60 with good blow  
 off bottom of bucket 3 min.

Recovery: 400' of gas  
 15' of clean oil  
 240' of muddy, gassy oil

IFP: 84-84  
 IBHP: 1117  
 FFP: 143-159  
 FBHP: 1042

## Remarks &amp; Recommendations:

The following table compares the Steinle-Yarnell #1 with the Cockrell Oil dry hole to the SE and with the Shields Oil producing well to the east:

	Tobias & Shields Steinle-Yarnell 1 NE NE SE 6	Cockrell #1 Fouts C NW NW 8	Shields Fallis #1 W2 E2 SE 5
Anhydrite	+ 890	+ 889	+ 881
Heebner	-1198	-1206	-1181
Lansing	-1254	-1266	-1241
C zone	-1302	-1312	-1289

You will note from the foregoing table that the S-Y #1 ran 12 feet higher on top of the LKC when compared to the Fouts #1 (dry hole) and 13 feet low when compared to the Fallis #1 (producer). The Fallis #1 is an A zone producer with only drilling mud recovered on drillstem test covering the C zone. The Fouts #1 recovered only drilling mud on both the A zone C zone drillstem tests. The Fallis and the Fouts did not have any permeability present in the C zone porosity. While the porosities in all three of these wells are very similar, only the S-Y #1 had sufficient permeability to give up formation fluid.

Based on the oil recovery from the C zone drillstem test, the Steinle-Yarnell #1 should complete as a commercial oil well.

From samples, log values and drillstem test data, I do not believe that the B zone & the A zone have any commercial value.

Respectfully submitted;

*Francis C. Whisler*

Francis C. Whisler

**GEOLOGIC LOG**

LITHOLOGY and DRILLING LOG

15-141-20328



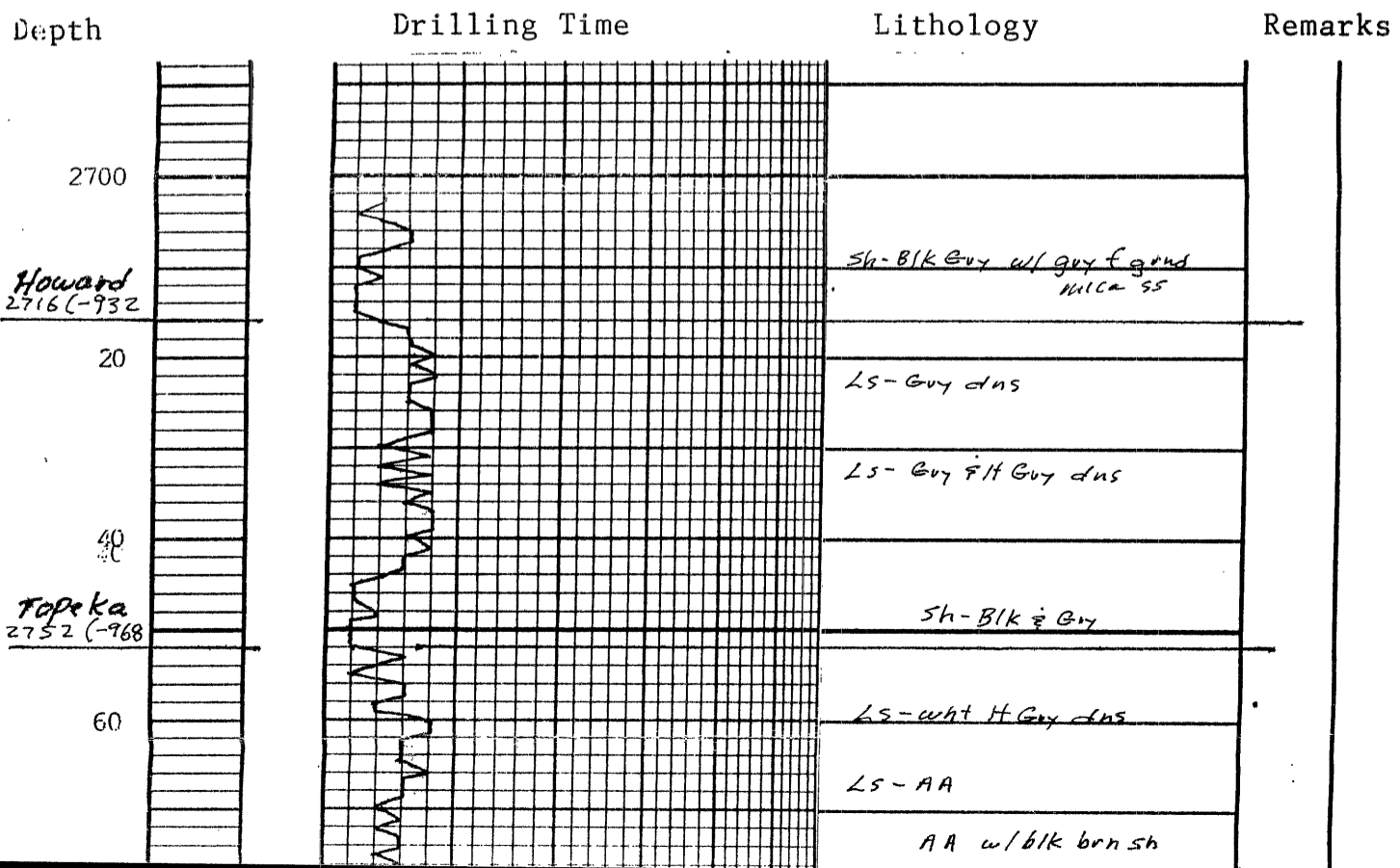
COMPANY <b>LEROY E. TOBIAS &amp; SHIELDS OIL PRODUCERS, INC.</b>	LOG TYPE <b>ELI</b>
WELL NAME <b>Steinle-Yarnell No. 1</b>	LOG TYPE <b>RA- GUARD-Caliper</b>
FIELD <b>Wildcat</b>	PRODUCTION <b>C zone LKC</b>
LOCATION <b>NE NE SE</b>	
SECTION <b>6 TWP 10 S RANG 12 W</b>	
COUNTY <b>Osborne County, Kansas</b>	ELEVATION <b>1784'</b>
STATE	<b>1779</b>

CONTRACTOR <b>Shields Drilling Co., Inc.</b>	CASING RECORD
START DATE <b>12-10-96</b>	SURFACE <b>8 5/8" set @ 209' w/ 150 sx</b>
COMPLETED DATE <b>12-18-96</b>	PRODUCTION <b>4 1/2" set @ 3221' w/ 125 sx</b>
DEPTH MEASURED FROM <b>KB KB</b>	

STRATIGRAPHIC MARKERS and STRUCTURAL RELATIONSHIP

MARKER	DEPTH (ft)	ELECTRIC LOG (ft)	DATUM (ft level)	STRUCTURAL POSITION
Anhydrite	896	894	+ 890	+ 1'
Howard Lime	2716	2714	- 930	
Topeka Lime	2752	2751	- 967	
Heebner Shale	3084	3082	-1198	+ 8'
Toronto Lime	3008	3005	-1221	+ 7'
Lansing-Kansas City	3040	3038	-1254	+ 12'
"C" Zone Porosity	3087	3086	-1302	+ 10'
Base of Kansas City	3343	3338	-1554	+ 11'
Total Depth	3350	3349	-1565	

Related to **Cockrell Oil Corporation's Fouts #1; C NW NW Sec. 5-10s-12w**



AA w/blk brn sh

15-141-20328-00-00

LS-AA

LS-AA & dns to chky

LS-AA-dns

LS-AA & chky

LS-AA w/blk ch  
some chky LS

Tr. blk sh

LS-AA & more chky  
sli foss  
w/sm amt blk sh

sh-Guy & brn

LS-wht dns

more sh

LS-wht dns w/  
some foss Lm

LS-wht some lt Guy  
dns to chky

LS-AA

Vis. 47  
wt. 8.8

sh-Blk Carb & foss

LS-wht buff lt Guy  
dns to chky

LS-wht lt Guy dns to chky  
w/some foss  $\phi$

LS-AA w/ Guy ch

LS-AA

LS-wht buff lt Guy  
chky & foss

Vis. 43  
wt. 8.9  
wl. 6.2

AA foss  $\phi$

more Guy dns Lm

sh-Blk Carb

LS-Dns Guy

sh-Guy blk Gon  
w/Lm

sh-AA

Vis. 46  
wt. 8.9

LS-wht lt Guy dns

sh-Rd brn & Guy

Abnt sh-Guy brn & sft pale grn

LS-wht buff fxl dns w/Trace  
poro: Vy Rare lt str NFD

80

2800

20

40

60

80

2900

20

40

60

80

Heebner  
2984C-1200

3000

Toronto  
3008C-1224

20

DST #1  
see  
below

Lansing  
3040C-1256

40

DST #1  
See below  
Lansing  
3040-1256  
40

60  
DST #2  
See below

3100

20

40

60

80

3200

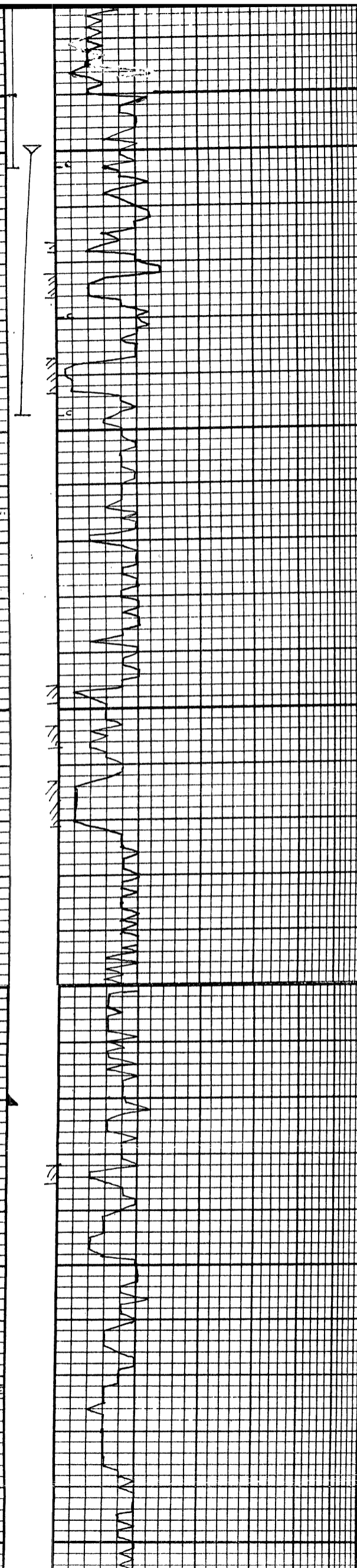
20

40

60

80

3300



Abnt sh - Gray brn & sft pale grn  
15-141-20328-00-00

LS - wht buff f xln dns w/ Trace  
poro: Vy Rare H stn NFO  
vy ft odor

sh - Abnt Gray blk brn  
& grn

LS - wht buff xln dns fo sli  
poro w/ Tr. foss  $\phi$ : Also -  
wht f xln dol. Some wht-  
brn cht: Only a Trace of  
H stn. NFO or odor

vis. 45  
wt. 9

Dks Lm i ch - AA & wht xln dol  
LS - wht buff brn dns fo  
oolc-ool w/ Good  $\phi$ . Rare  
stn - poor sat. vss FHO  
NO odor Abnt barren  $\phi$

LS - wht dns some chky

LS - wht H Gray dns  
w/ Trace ch

LS - AA w/ sh - blk Gray brn

LS & sh - AA

LS & sh - AA  
w/ some wht oolc Lm

LS & sh - AA w/ Tr. cht  
Tr. wht xln dol

LS - wht dns fo chky & oolc  $\phi$   
Tr. cht

LS - more H Gray dns

vis. 48  
wt. 8.9

LS - AA w/ Gray brn sh

AA & some oolc  $\phi$

LS - wht oolc  $\phi$

more wht dns

more Gray dns  
w/ sh - Gray & brn

LS - wht H Gray dns  
w/ oolc  $\phi$

more dns Lm  
w/ Gray & brn sh

LS - wht H Gray dns  
w/ wht xln dol

sh - blk Gray & brn  
w/ dns Lm - AA

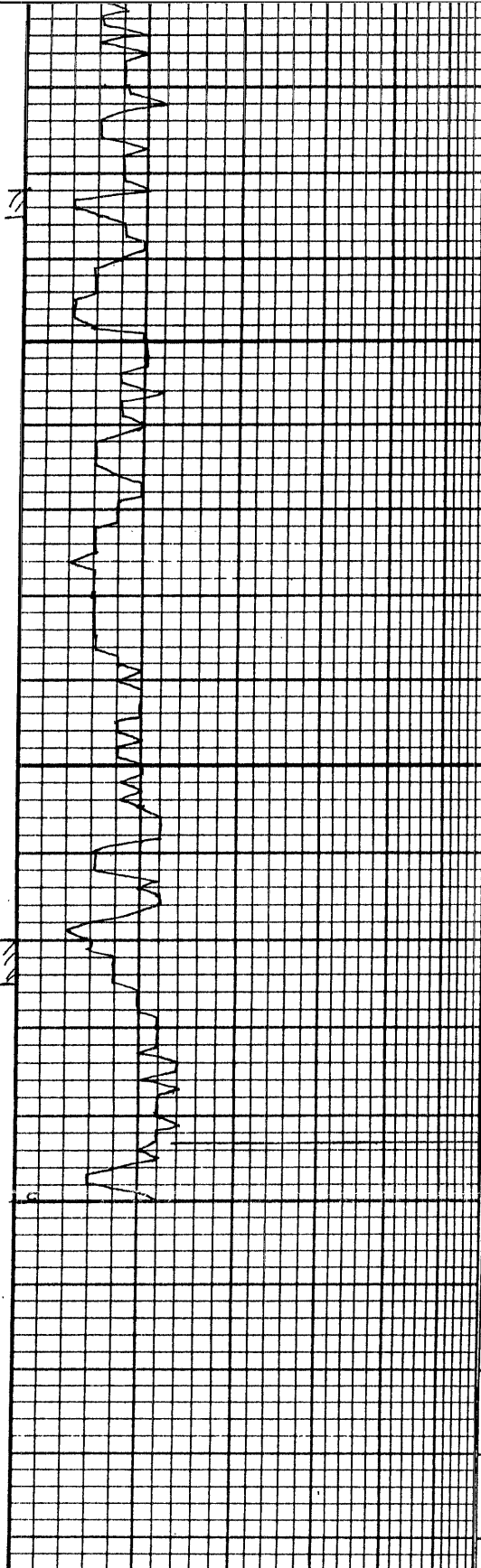
LS - Gray buff dns  
w/ sh blk Gray brn  
& Tr. blk Carb sh

LS - Gray buff dns  
& xln dol

LS - AA

LS - AA

20  
40  
60  
80  
3300  
20  
40



more wht dns  
15-141-20328-00-00

more Gry dns  
w/ sh-Gry & brn

LS - wht lt Gry dns  
w/ oolc  $\Phi$

more dns Lm  
w/ Gry & brn sh

LS - wht lt Gry dns  
w/ wht x/n dol

sh-blk Gry & brn  
w/ dns Lm - AA

LS - Gry buff dns  
w/ sh Blk Gry brn  
& Tr. Blk Carb sh

LS - Gry buff dns  
& x/n dol

LS - AA

LS - AA

sh - Gry blk-carb  
Abt Gry sh w/  
LS - dns Gry

Vis. 48  
wt. 9.3  
wt. 10

LS - st Gry Gry dns

more wht Gry dns Lm

sh - Gry & blk

DST 1: 3017-53; 30-60-30-60  
wk Int thru-out  
Rec: 10' 50CM + Free  
oil on top

IFP: 33-33 IBHP: 92  
FFP: 33-33 FBHP: 92

DST 2: 3049-97; 15-60-45-60  
Good blow; OB 3 min.  
Rec. 400' Gas

15' CO  
240' MGO  
IFP: 84-84 IBHP: 1117  
FFP: 143-159 FBHP: 1042

B/KC  
3348(-1559)

TD 3350  
(-1566)