

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

API NO. 15- 141-20, ~~330-00-00~~ **ORIGINAL**
County Osborne
East 70' SW-SE-NE Sec. 6 Twp. 10 Rge. 12 X W

Operator: License # 5184

Name: Shields Oil Producers, Inc

Address Shields Bldg.

City/State/Zip Russell, KS 67665

Purchaser: None

Operator Contact Person: Burton Beery

Phone (913) 483-3141

Contractor: Name: Company Tools

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 PBTB
 Commingled Docket No. _____
 Dual Completion Docket No. _____
 Other (SWD or Inj?) Docket No. _____

1-20-97 1-26-97 None
Spud Date Date Reached TD Completion Date

2970 Feet from SW (circle one) Line of Section

920 Feet from EW (circle one) Line of Section

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

Lease Name Kendig "E" Well # 1

Field Name Wildcat

Producing Formation None

Elevation: Ground 1789 KB 1794

Total Depth 3107 PBTB None

Amount of Surface Pipe Set and Cemented at 221 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 RA-3-19-98
(Data must be collected from the Reserve Pit) U.C.

Chloride content 61,000 ppm Fluid Volume 380 bbls

Dewatering method used Evaporation

Location of fluid disposal if hauled offsite: _____

Operator Name _____

Lease Name _____ License No. _____

Quarter Sec. Twp. Rng. E/W

County _____ Docket No. _____

*Rec'd
2-7-97*

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.

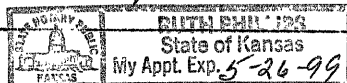
Signature Burton Beery

Title Superintendent Date 2-5-97

Subscribed and sworn to before me this 5th day of February, 19 97.

Notary Public Jack Phillips

Date Commission Expires _____



K.C.C. OFFICE USE ONLY		
F	<input type="checkbox"/>	Letter of Confidentiality Attached
C	<input 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 Kendig "E" Well # 1

Sec. 6 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 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:

Name	Top	Datum	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input checked="" type="checkbox"/> Sample
			Anhydrite	906	+ 888
Howard Lime	2727	- 933			
Topeka Lime	2765	- 971			
Heebner Shale	2996	-1202			
Toronto Lime	3019	-1225			
Lans-Kan City	3051	-1257			
TD	3107	-1313			

CASING RECORD <input checked="" type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose or 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	221	60/40 Poz Mix	150	2% Gel 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 type="checkbox"/> Plug Off Zone				

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type		Acid, Fracture, Shot, Cement Squeeze Record	
	Specify Footage of Each Interval Perforated		(Amount and Kind of Material Used)	
				Depth

TUBING RECORD Size Set At Packer At Liner Run Yes No

Date of First, Resumed Production, SWD or Inj. P&A Producing Method Flowing Pumping Gas Lift Other (Explain)

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	<u>N-A</u>				

Disposition of Gas: Vented Sold Under Lease (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

15-141-20330-00-00

FORM ACO-1 DRILL STEM TESTS

SHIELDS OIL PRODUCERS, INC. LEASE Kendig E #1
D.S.T. #1 3028-3065 Times: 30-60-30-60
I.H.P. 1478 I.F.P. 32-32 I.S.I.P. 179
F.F.P. 32-32 F.S.I.P. 48 F.H.P. 1470
Recovery: 5' Drlg. Mud with specks of oil

D.S.T. #2 3060-3090 Times: 30-60-30-60
I.H.P. 1519 I.F.P. 40-40 I.S.I.P. 1151
F.F.P. 40-40 F.S.I.P. 1104 F.H.P. 1504
Recovery: 15' Drlg. Mud

D.S.T. #3 3089-3107 Times: 30-60-60-60
I.H.P. 1487 I.F.P. 24-24 I.S.I.P. 1176
F.F.P. 32-32 F.S.I.P. 1144 F.H.P. 1470
Recovery: 25' Muddy Water

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:

15-141-20370-00-00

ALLIED CEMENTING CO., INC. 7181

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

SERVICE POINT: Russell

ORIGINAL

DATE <u>1-26-97</u>	SEC. <u>6</u>	TWP. <u>10</u>	RANGE <u>12</u>	CALLED OUT	ON LOCATION	JOB START	JOB FINISH <u>10:30 AM</u>
LEASE <u>Kendig</u>	WELL# <u>E-1</u>	LOCATION <u>7 1/2 N Luray E Side</u>			COUNTY <u>Osborne</u>	STATE <u>Kan</u>	

OLD OR NEW (Circle one)

CONTRACTOR Co Tools

TYPE OF JOB Plug

HOLE SIZE 7 7/8" T.D. 3107

CASING SIZE _____ DEPTH _____

TUBING SIZE _____ DEPTH _____

DRILL PIPE _____ DEPTH _____

TOOL _____ DEPTH _____

PRES. MAX _____ MINIMUM _____

MEAS. LINE _____ SHOE JOINT _____

CEMENT LEFT IN CSG. _____

PERFS. _____

OWNER Same

CEMENT

AMOUNT ORDERED 175 @ 6% 6% label

COMMON	<u>105</u>	@	<u>6.10</u>	<u>640.50</u>
POZMIX	<u>70</u>	@	<u>3.15</u>	<u>220.50</u>
GEL	<u>9</u>	@	<u>9.50</u>	<u>85.50</u>
CHLORIDE		@		
		@		
		@		
		@		
		@		
		@		
HANDLING		@	<u>1.05</u>	<u>183.75</u>
MILEAGE	<u>48/52/1 mile</u>			<u>210.00</u>
TOTAL				<u>1340.25</u>

EQUIPMENT

PUMP TRUCK CEMENTER McAdoo

177 HELPER Will

BULK TRUCK DRIVER Cilen

160

BULK TRUCK DRIVER _____

REMARKS:

Mixed 20 SKs at 920

80 SKs at 590

40 SKs at 270

10 SKs at 40'

15 SKs in Kat hole

10 SKs in mouse Hole

SERVICE

DEPTH OF JOB				
PUMP TRUCK CHARGE			<u>415.00</u>	
EXTRA FOOTAGE	@			
MILEAGE	<u>30</u>	@	<u>2.85</u>	
PLUG		@	<u>23.00</u>	
		@		
		@		
TOTAL				<u>575.00</u>

CHARGE TO: Shields Oil Prod

STREET Shield Bldg.

CITY Russell STATE Kansas 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 Dore Sherry

ALLIED CEMENTING CO., INC. 7179

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

SERVICE POINT:
Russell

DATE <u>1-20-77</u>	SEC. <u>6</u>	TWP. <u>10</u>	RANGE <u>12</u>	CALLED OUT	ON LOCATION <u>9:15 PM</u>	JOB START	JOB FINISH <u>10:30 PM</u>
LEASE <u>Kendig</u>	WELL # <u>E-1</u>	LOCATION <u>Lunay 8N</u>			COUNTY <u>Osborne</u>	STATE <u>Kan</u>	

OLD OR NEW (Circle one)

CONTRACTOR	OWNER <u>Same</u>
TYPE OF JOB	CEMENT
HOLE SIZE	T.D. <u>224</u>
CASING SIZE	DEPTH <u>221</u>
TUBING SIZE	DEPTH
DRILL PIPE	DEPTH
TOOL	DEPTH
PRES. MAX	MINIMUM
MEAS. LINE	SHOE JOINT
CEMENT LEFT IN CSG.	<u>15"</u>
PERFS.	

AMOUNT ORDERED 150 @ 60 3% @ 2% @ 100

COMMON	<u>90</u>	@ <u>6.10</u>	<u>549.00</u>
POZMIX	<u>60</u>	@ <u>3.15</u>	<u>189.00</u>
GEL	<u>3</u>	@ <u>9.50</u>	<u>28.50</u>
CHLORIDE	<u>5</u>	@ <u>28.00</u>	<u>140.00</u>
		@	
		@	
		@	
		@	
		@	
HANDLING		@ <u>1.05</u>	<u>157.50</u>
MILEAGE	<u>44/51/</u>	<u>Mile</u>	<u>180.00</u>
TOTAL			<u>1244.00</u>

EQUIPMENT

PUMP TRUCK # <u>279</u>	CEMENTER <u>McAdoo</u>
	HELPER <u>Bill L.</u>
BULK TRUCK # <u>282</u>	DRIVER <u>Darin</u>
BULK TRUCK #	DRIVER

REMARKS:

Mixed 150 @ 60 3% @ 2% @ 100
Displaced 134 B

SERVICE

DEPTH OF JOB	
PUMP TRUCK CHARGE	<u>225.00</u>
EXTRA FOOTAGE	@
MILEAGE <u>30</u>	@ <u>2.85</u> <u>85.50</u>
PLUG	@ <u>45.00</u>
	@
	@
TOTAL <u>575.50</u>	

CHARGE TO: Shields Oil Prod.
STREET: Shields Blvd.
CITY: Russell STATE: Kansas 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 Burton Beery

COMPANY Shields Oil Prod FARM Kenzie E WELL NO. 1
 SEC. TWP. RGE. LOC. COUNTY Osborne STATE Ks
 CONTRACTOR Shields Drlg SIZE HOLE 7 7/8 DRILL PIPE 4 1/2
 REMARKS: SIZE PUMP LINERS 6 LENGTH STROKE 14

ORIGINAL

20330
 15-141-~~20329~~-00-00

DATE

DEPTH	TIME O'CLOCK	MIN.	REMARKS
2704	10:05	6	
	8	1	
	9	1	
	11	2	
5	12	1	
	13	1	
	15	1	
	18	3	
	21	3	
2710	23	2	
	25	2	
	27	2	
	28	1	
	30	2	
15	31	1	
	33	2	
	36	3	
	38	2	conn
	51/59	1	
2720	11:01	2	
	2	1	
	3	1	
	4	1	
	5	1	
25	6	1	
	7	1	
	8	1	
	10	2	
	13	3	
2730	16	3	
	19	3	
	22	3	
	25	3	
	28	3	
35	30	2	
	33	3	
	35	2	
	38	3	
	40	2	
2740	43	3	
	46	3	
	49	3	
	51	2	
	54	3	
45	57	3	
	59	2	
	12:02	3	
	05	3	
	08	3	conn
2750	13/15	2	

DEPTH	TIME O'CLOCK	MIN.	REMARKS
2750	12:15	15	
	21	3	
	24	3	
	27	3	
55	30	3	
	32	2	
	33	1	
	35	2	
	36	1	
2760	37	1	
	39	2	
	40	1	
	42	2	
	43	1	
65	44	1	
	48	4	
	51	3	
	53	2	
	56	3	
2770	1:00	4	
	3	3	
	6	3	
	9	3	
	13	4	
75	17	4	
	19	2	
	23	4	
	27	4	
	30	3	
2780	34	4	conn
	40/42	2	
	44	2	
	46	2	
	48	2	
85	51	3	
	53	2	
	56	3	
	58	2	
	2:00	2	
2790	03	3	
	05	2	
	07	2	
	11	4	
	14	3	
95	17	3	
	21	4	
	24	3	
	26	2	
	29	3	
2800	30	1	

COMPANY Shields Oil Prod FARM Kenlig E WELL NO. 1
 SEC. TWP. RGE. LOC. COUNTY Oshorne STATE Ks
 CONTRACTOR Shields Drls 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
2800	2:30		
	32	2	
	33	1	
	35	2	
	37	2	
5	39	2	
	41	2	
	44	3	
	47	3	
	50	3	
2810	53	3	
	56	3	conn Ser Rig
	08/10	2	
	13	3	
	16	3	
15	20	4	
	23	3	
	26	3	
	30	4	
	33	3	
2820	36	3	
	39	3	
	41	2	
	45	4	
	48	3	
28	52	4	
	56	4	
	59	3	
	4:02	3	
	06	4	
2830	10	4	
	13	3	
	17	4	
	20	3	
	23	3	
38	27	4	
	29	2	
	31	2	
	33	2	
	35	2	
2840	37	2	
	39	2	
	41	2	
	43	2	conn add
	48	1	polpac
45	50	1	
	52	2	
	54	2	
	56	2	
	58	2	
2860	5:01	3	

DEPTH	TIME O'CLOCK	MIN.	REMARKS
2850	5:01		
	03	2	
	05	2	
	06	1	
	08	2	
88	11	3	
	13	2	
	16	3	
	18	2	
	21	3	
2870	23	2	
	26	3	
	28	2	
	31	3	
	33	2	
65	36	3	
	38	2	
	40	2	
	42	2	
	46	4	
2870	49	3	
	54	5	
	58	4	conn
	6:03	3	
	06	3	
	08	2	
75	10	2	
	11	1	
	13	1	
	15	2	
	16	1	
2880	18	2	
	20	2	
	21	1	
	24	3	
	27	3	
85	31	4	
	34	3	
	37	3	
	40	3	
	43	3	
2890	46	3	
	50	4	
	54	4	
	57	3	
	7:01	4	
95	05	4	
	10	5	
	12	2	
	15	3	
	18	3	
2900	22	4	

COMPANY Shields Oil Prod. FARM Mending E WELL NO. 1
 SEC. TWP. RGE. LOC. COUNTY Osborn STATE KS
 CONTRACTOR Shields Drilling Co. 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
2900	7:22		
01	27	5	
	31	4	
	34	3	Conn
	39	1	
05	42	2	
	45	3	vis 47 wt 8.7
	48	3	w 16.4
	51	3	
	55	4	
2910	59	4	
	8:03	4	
	06	3	
	10	4	
	14	4	
15	18	4	
	22	4	
	25	3	
	29	4	
	33	4	
2920	35	2	
	37	2	
	41	4	
	45	4	
	49	4	
25	53	4	
	57	4	
	9:00	3	
	03	3	
	07	4	
2930	11	4	
	14	3	
	17	3	
	20	3	
	23	3	Conn
35	28	3	
	33	2	
	37	4	
	40	3	
	43	3	
2940	47	4	
	51	4	
	55	4	
	59	4	
	10:02	3	
45	09	3	
	07	2	
	10	3	
	12	2	
	14	2	
2950	18	4	

DEPTH	TIME O'CLOCK	MIN.	REMARKS
2950	18		
51	21	3	
	25	4	
	28	3	
	30	2	
55	33	3	
	36	3	
	39	3	
	41	2	
	43	2	
2960	45	2	
	47	2	
	49	2	
	52	3	
	54	2	
65	56	2	Conn.
	09	2	
	11	2	
	13	2	
	16	3	
2970	18	2	
	20	2	
	22	2	
	24	2	
	26	2	
75	28	2	
	30	2	
	33	3	
	36	3	
	40	4	
2980	44	4	
	47	3	
	50	3	
	53	3	
	56	3	
85	59	3	
	12:03	4	
	06	3	
	09	3	
	12	3	
2990	17	5	
	21	4	
	25	4	
	29	4	
	34	5	
95	38	4	
	42	4	CONN
	49	3	
	52	3	
	56	4	
3000	1:02	6	

Wake Cool @ 3050

COMPANY Shields Oil Prod FARM Kendig "E" WELL NO. 1
 SEC. TWP. RGE. LOC. COUNTY Osborne STATE KS
 CONTRACTOR Shields Drill SIZE HOLE 7 7/8 DRILL PIPE 4 1/2
 REMARKS: 913-827-5626 SIZE PUMP LINERS 1" LENGTH STROKE 14"

DATE

DEPTH	TIME O'CLOCK	MIN.	REMARKS
3000	1:02		
	10	8	
	14	4	
	18	4	
	22	4	
05	27	5	
	32	5	
	36	4	
	40	4	
	44	4	
10	49	5	
	53	4	
	57	4	
	2:01	4	
	04	3	Dis-47
15	08	4	WT-8.9
	12	4	
	16	4	
	20	4	
	24	4	
20	29	5	
	35	6	
	42	7	
	48	6	
	55	7	
25	2:00	5	
	05	5	
	10	7	CONN
	14	6	
	18	7	
30	35	4	
	38	3	
	41	3	
	43	2	
	47	4	
35	51	4	
	55	4	
	58	3	
	4:00	2	
	03	9	
40	05	2	
	07	2	
	10	3	
	12	2	
	14	2	
45	16	2	
	18	2	
	20	2	
	22	2	
	24	2	
50	26	2	wake Cool

DEPTH	TIME O'CLOCK	MIN.	REMARKS
3050	2:29	3	
	34	5	3051 1794 1257
	38	4	
	42	4	
55	46	4	
	52	6	
	56	4	
	59	3	
	5:03	4	CONN
60	07:12	5	
	16	4	
	21	5	
	26	5	Vis 45 WT 9 WL 8.8
	30	4	
65	32	2	CFS DST #1
	59	2	37' Anchor
	04	3	
	09	5	
	12	3	
70	16	4	
	21	5	
	26	5	
	31	5	
	37	6	
75	43	6	
	47	4	
	51	4	
	54	3	
	57	3	
80	7:02	5	
	06	4	
	09	3	
	12	3	
	16	4	
85	19	3	
	22	3	
	24	2	
	29	5	Vis 47 WT 9.0
	33	4	WL 8.4
90	38	5	CONN CFS
	6:51:36	5	DST #2 30' Anchor
	7:03	7	
	9	6	
	16	7	
95	22	6	
	29	7	
	34	5	
	39	5	
	40	1	
3:00	41	7	

FRANCIS C. WHISLER
CERTIFIED PETROLEUM GEOLOGIST
837 EAST 1ST
RUSSELL, KANSAS 67665

ORIGINAL



15-141-20330-00-00

SHIELDS OIL PRODUCERS, INC.
Russell, Kansas

GEOLOGICAL REPORT

Kendig E-1

70' East of SW SE NE
Section 6, Twp. 10 South, Rge. 12 West
Osborne County, Kansas

Jan. 27, 1997

15-141-20330-00-00

SHIELDS OIL PRODUCERS, INC.

P O Box 709
Russell, Kansas

Geological Report: Kendig E-1
70' E of SW SE NE Sec. 6
T 10 S, R 12 W
Osborne County, Kansas

Contractor: Shields Drilling Co., Inc.

Drilling Commenced: Jan. 20, 1997

Drilling Completed: Jan. 26, 1997

Casing Record: 221' of 8 5/8" surface casing
cemented with 150 sacks.

Samples: Saved and examined from 2700'
to 3107', RTD. Zones of interest
are described in this report.
Samples will be sent to the Kansas
Sample Library at 4150 Monroe St.,
Wichita, Kansas.

Drilling Time: Recorded and plotted from 2700'
to 3107', RTD. A copy of the
drilling time/lithology log is
included with this report.

Drillstem Tests: 3 by Swift Formation Testers.

Electric Logs: None

Elevations: Kelly Bushing 1794'
Ground Level 1789'
Measurements From: K. B.

Formations: Rotary Datums:
Depths:

Anhydrite	906-939	+ 888
Howard Lime	2727	- 933
Topeka Lime	2765	- 971
Heebner Shale	2996	-1202
Toronto Lime	3019	-1225
Lansing-Kansas City	3051	-1257
C Zone Porosity	3098	-1304
Total Depth	3107	-1313

Lithology, Zones of Interest & Test Data:

Lansing-Kansas City:

3051-3065: LS-white, some buff, fine crystalline, dense with
A zone only slight visible porosity. Very rare light
oil stain, poor saturation and no free oil or
odor. Tested by drillstem test #1.

DRILLSTEM TEST No. 1: 3028-3065: Times; 30-60-30-60 with
weak blow 1st. open and
no blow 2nd. open.

Recovery:	5' of mud with specks of oil		
IFP:	32-32	IBHP:	179
FFP:	32-32	FBHP:	48

3080-3090: LS-white, some buff, dense to slight fossiliferous
B zone and chalky. Some crystalline dolomite. Very
rare light oil stain in fossil lime porosity.
Some white, brown vitreous chert. No free oil
or odor. Tested by drillstem test #2.

DRILLSTEM TEST No. 2: 3060-3090: Times; 30-60-30-60 with
Weak blow throughout test.

Recovery:	15' of mud		
IFP:	40-40	IBHP:	1151
FFP:	40-40	FBHP:	1104

3098-3105: LS-white, some buff, oolitic and oolitic with
C zone good porosity and abundant barren porosity.
Rare oil stain and poor saturation. Very slight
show of free oil and questionable faint oil odor.
Tested by drillstem test #3.

DRILLSTEM TEST No. 3: 3089-3107: Times: 30-60-60-60 with
weak steady blow throughout.

Recovery:	25' of muddy water		
IFP:	24-24	IBHP:	1176
FFP:	32-32	FBHP:	1144

Remarks & Recommendations:

The following table compares the Kendig E-1 with the Steinle-Yarnell #1 (one location southeast):

	Shields & Tobias Kendig E-1	Shields & Tobias Steinle-Yarnell #1
Anhydrite	+ 888	+ 890
Howard Lime	- 933	- 930
Topeka Lime	- 971	- 967
Heebner Shale	-1202	-1198
Lansing-Kansas City	-1257	-1254
C Zone Porosity	-1304	-1302

You will note from the foregoing table that the Kendig E-1 ran only 2 to 4' lower than the diagonal offset well, on all horizons. Three drillstem tests were taken covering the A, B and C zones of the LKC. None of the oil shows appeared to be of commercial quality. The results of each test were negative and it was decided that the Kendig E-1 should be plugged and abandoned as a dry hole.

It does appear that this dry hole puts a North boundary on any structural anomaly that may encompass the Steinle-Yarnell #1, which is still undergoing completion. It further appears, to me, that any additional drilling (if done) should be to the South and Southeast of the Steinle-Yarnell #1.

Respectfully submitted,

Francis C. Whisler

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GEOLOGIC LOG

LITHOLOGY AND DRILLING TIME

15-141-20330



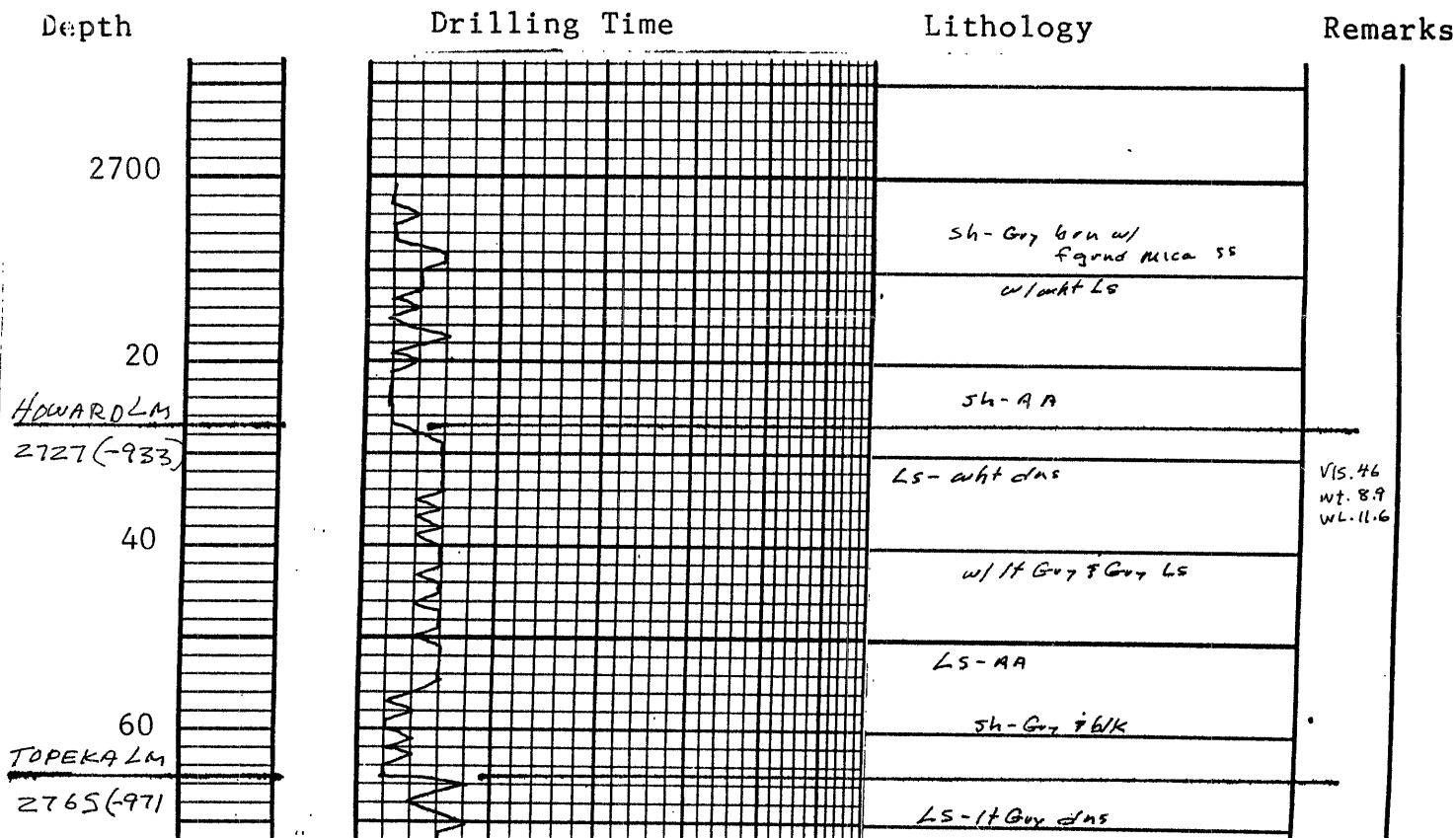
OPERATOR	SHIELDS OIL PRODUCERS, INC Russell, Kansas	ELECTRIC LOG	None
WELL	Kendig E-1	PRODUCTION	D & A
FIELD	Un named		
LOCATION	70' E of SW SE NE		
TOWNSHIP	6 T 10 S	RANGE	12 W
COUNTY	Osborne	ELEVATION	KB 1794'
STATE	Kansas	GL	1789'

OPERATOR	Shields Drilling Co., Inc.	CASING RECORD	
DATE	Jan. 20, 1997	COMPLETED	Jan. 26, 1997
DEPTH MEASURED FROM	DRILLING Yes	LOG	NA
		SURFACE	221' 8 5/8"
			w/ 150 sacks
		PRODUCTION	None

STRATIGRAPHIC MARKERS AND STRUCTURAL RELATIONSHIP

FORMATION	DEPTH (ft)	ELECTRIC LOG	CASING (ft)	STRUCTURAL POSITION
Anhydrite	906-939	NA	+888	- 2'
Howard Lime	2727	-	-933	- 3'
Topeka Lime	2765	-	-971	- 4'
Heebner Shale	2996	-	-1202	- 4'
Toronto Lime	3019	-	-1225	- 4'
Lansing-Kansas City	3051	-	-1257	- 3'
C zone porosity	7' thick	3098	-1304	- 2'
Total Depth	3107	-	-1313	NA

Reference Well: Tobias & Shields Steinle-Yarnell #1
NE NE SE Sec. 6, T 10 S, R 12 W Osborne County



60
TOPEKA LM
2765(-971)

2800

20

40

60

80

2900

20

40

60

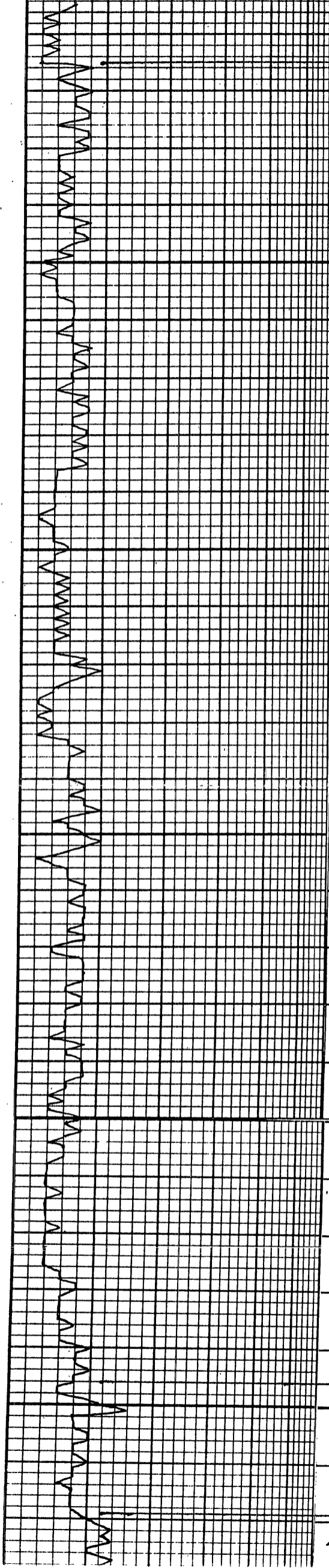
80

HEEBNER SH
2996(-1202)

3000

TORONTO LM
3019(-1225)

20



15-141-20330-00-00
sh-Gry & blk

LS-1ft Gry dns

LS-AA

LS-AA & more wht

LS-AA, some chky

LS-AA

LS-AA w/ gry oht

LS & oht - AA

LS-AA & granular

LS-AA w/ shs

LS-1ft Gry & buff
suc

LS-wht 1ft Gry dns
w/tr. blk carb sh

LS-AA w/ 1ncr blk sh

LS-wht dns (2868-73)

LS-AA

LS-wht 1ft Gry dns

vis. 47
wt. 8.7
wt. 6.4

LS-AA

sh- blk carb

LS-1ft Gry dns

LS-wht 1ft Gry dns to chky

LS-AA

LS-wht 1ft Gry dns
to chky

LS-AA w/ 1ft Gry oht

LS-wht some buff dns

LS-AA

sh- blk carb
w/LS- gry dns

LS-wht 1ft Gry dns
w/ sh-Gry & ben

vis. 47
wt. 8.9

LS-wht dns w/
wht vit oht