

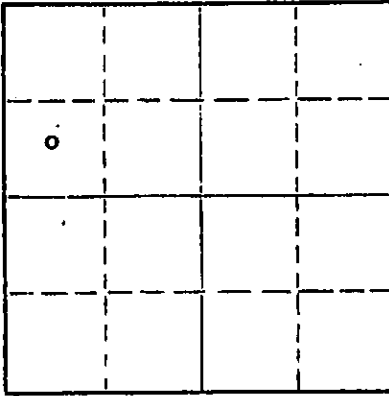
15-135-20746-00-00

STATE OF KANSAS
STATE CORPORATION COMMISSION

Form CP-4

WELL PLUGGING RECORD

Give All Information Completely
Make Required Affidavit
Mail or Deliver Report to:
Conservation Division
State Corporation Commission
217 N. Broadway P.O. Box 17027
Wichita, Kansas
67217
NORTH



Locate well correctly on above
Section Plat

Ness County, Sec. 13 Twp. 17S Rge. (E) 22 (W)
Location as "NE/CNW/SW" or footage from lines C SW NW
Lease Owner John Eaton
Lease Name Kleweno Well No. 1
Office Address Shields, Kansas 67874
Character of Well (completed as Oil, Gas or Dry Hole) Dry Hole
Date well completed May 9 19 73
Application for plugging filed May 9 19 73
Application for plugging approved May 9 19 73
Plugging commenced May 9 19 73
Plugging completed May 9 19 73
Reason for abandonment of well or producing formation Dry Hole

If a producing well is abandoned, date of last production 19
Was permission obtained from the Conservation Division or its agents before plugging was commenced? Yes

Name of Conservation Agent who supervised plugging of this well Leo F. Massey
Producing formation Depth to top Bottom Total Depth of Well 4361 Feet
Show depth and thickness of all water, oil and gas formations.

OIL, GAS OR WATER RECORDS				CASING RECORD		
FORMATION	CONTENT	FROM	TO	SIZE	PUT IN	PULLED OUT
		0	293'	8 5/8"	293'	None

Describe in detail the manner in which the well was plugged, indicating where the mud fluid was placed and the method or methods used in introducing it into the hole. If cement or other plugs were used, state the character of same and depth placed, from feet to feet for each plug set.

Plug:
660' w/70 sacks cement
240' w/20 sacks cement
40' w/10 sacks cement

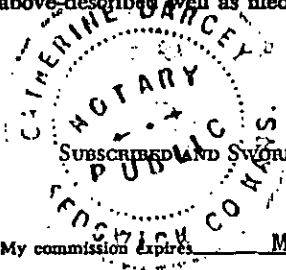
RECEIVED
STATE CORPORATION COMMISSION
MAY 14 1973
CONSERVATION DIVISION
Wichita, Kansas

(If additional description is necessary, use BACK of this sheet)
Name of Plugging Contractor Hellar Drilling Company, Inc.
Address 339 Union Center Bldg., Wichita, Kansas 67202

STATE OF Kansas, COUNTY OF Sedgwick, ss.
D. L. Hellar, President of Hellar Drlg. Co. (Employee of owner) or (owner or operator) of the above-described well, being first duly sworn on oath, says: That I have knowledge of the facts, statements, and matters herein contained and the log of the above-described well as filed and that the same are true and correct. So help me God.

(Signature) D. L. Hellar D. L. Hellar, President
339 Union Center Bldg., Wichita, Kansas 67202
(Address)

Subscribed and sworn to before me this 19th day of May, 1973
Catherine Darcey
Catherine Darcey - Notary Public.
My commission expires March 25, 1976



15-135-20746-0000

DRILLER'S LOG

COMPANY: John Eaton, Shields, Kansas 67854
 CONTRACTOR: Hellar Drilling Company, Inc., 339 Union Center Bldg., Wichita, Kansas 67202
 LEASE: #1 Kleweno
 LOCATION: c SW NW 13-17S-22W, Ness County, Kansas
 COMMENCED: April 28, 1973
 COMPLETED: May 9, 1973
 CASING: Set 8 5/8" Surface Casing @ 293' w/175 sacks cement

0-293	Surface soil & clay
293-985	Shale & Red Bed
985-1285	Shale & Red Bed & Sand
1285-1582	Shale
1582-1619	Anhydrite
1619-1790	Shale
1790-2265	Shale & Red Bed
2265-2440	Lime
2440-2515	Lime & Shale (Ft. Riley) & Chert
2515-3625	Lime & Shale
3625-3740	Lime & Shale (Topeka)
3740-3844	Lime & Shale
3844-3952	Lime
3952-4054	Lime (L.K.C.)
4054-4320	Lime
4320-4325	Miss.
4325-4330	Lime
4330-4361	Miss.
4361	Rotary Total Depth
	D & A

RECEIVED
 STATE CORPORATION COMMISSION
 MAY 14 1973
 CONSERVATION DIVISION
 WICHITA, KANSAS

RECEIVED
 STATE CORPORATION COMMISSION
 MAY 14 1973
 CONSERVATION DIVISION
 WICHITA, KANSAS

STATE OF KANSAS)
) SS
 COUNTY OF SEDGWICK)

I, D. L. Hellar, do hereby certify that the above and foregoing is a true and correct copy of the log of the #1 Kleweno, located in c SW NW 13-17S-22W, Ness County, Kansas, as reflected by the files of the Hellar Drilling Company, Inc.

HELLAR DRILLING COMPANY, INC.

By *D. L. Hellar*
 President - D. L. Hellar

Subscribed and sworn to before me, a Notary Public, in and for Sedgwick County, Kansas, this 10th day of May, 1973.

NOTARY PUBLIC
 My Commission Expires:
 March 25, 1976.

Catherine Dacey
 Notary Public - Catherine Dacey

KLEWENO PROSPECT
17S-22W
NESS COUNTY, KANSAS

RECEIVED
STATE CORPORATION COMMISSION

SEP 14 1981

CONSERVATION DIVISION
Wichita Kansas

LOCATION: The Kleweno Prospect is located nine miles north of Bazine, Kansas in Ness County, six miles west of the Start Pool which has recovered over 1,000,000 barrels of oil.

DRILL SITE: SW NW Sec. 13-17S-22W, Ness County, Kansas.

LEASES: Acreage covers 640 acres. See accompanying land plat for description.

AREA GEOLOGY: The Kleweno prospect lies on the west flank of the Central Kansas Uplift in an area of Cherokee sand deposits and truncated Mississippian, known locally as the Cherokee Syncline.

PROSPECT GEOLOGY: This wildcat prospect is keyed off of the Pickrell #1 Kleweno, an abandoned producer located in the SW NW of Section 13. This test produced almost 5,000 barrels of oil from the Mississippian-Osage before abandonment. A dry hole drilled to the east in the NE/4 of Sec. 13 has established strong east dip on the prospect. The abandoned Ft. Scott producer in Sec. 12 is 20 feet lower on the Heebner shale and gives the critical north dip to the prospect. A new test well should be drilled to the west of the Pickrell #1 Kleweno on the strong northeast to southwest trending anticline. Ness County has been the hottest county in the State of Kansas for the past year, leading in new zone discoveries. Possible producing horizons are the Lansing, Marmaton, Ft. Scott, Cherokee, and Mississippian.

SEISMIC: The seismic data are fair to good over the Prospect area, and are felt to be reliable. The seismic shows a 12 foot thin in the western part of Section 13 and the SE/4 of Section 14. If the Anhydrite remains flat, the Mississippi-Osage should be encountered 12 feet higher than the abandoned producer to the east.

RESERVES: The better Mississippian wells in Ness County have recovered from 60,000 to 80,000 barrels of oil. It is projected this prospect could contain 8 wells with an ultimate recovery of 560,000 barrels of oil.

CONCLUSIONS: In summation, the merits of this prospect are as follows:

- (1) The prospect is located on a closure on a strong northeast to southwest trending anticline with good north and east dip.
- (2) A good show hole which produced approximately 5,000 barrels of oil.
- (3) Prospective area for multi-pay wells.
- (4) Expected oil recoveries are highly commercial.

MARION A. SUNDBERG
PETROLEUM GEOLOGIST
610 N. MAIN 913 AC 7-2301
LINDSBORG, KANSAS 67456

May 10, 1973

JOHN EATON
Kleweno #1 C SW NW
Ness County, Kansas

Elevation 2309 feet ground level.

Commenced: April 28, 1973.

Completed: May 9, 1973.

Contractor: Hellar Drilling Company.

8 5/8 inch surface casing cemented at 293 feet with 175 sacks cement with 3% gel and 3% chloride.

GEOLOGICAL REPORT

The following are the important geological markers, zones of indicated porosity, shows of oil and gas, and other pertinent data as determined by the appearance of the drill cuttings and changes in drilling rate, drill stem tests and logging.

The Anhydride and the Topeka limestone tops were picked from the Gamma-Neutron open hole log. There were four drill stem tests run. The well was logged from 1550 feet to 1700 feet and 3350 feet to 4359 feet. The total rotary depth was 4361 feet.

TOP ANHYDRIDE 1576 (-738)

TOP TOPEKA 3412 (-1098)

TOP HEEBNER 3708 (-1394)

Black carboniferous shale.

TOP TORONTO 3729 (-1415)

Buff, soft, flaky, cherty limestone with interbedded varied colored shale.

TOP LANSING 3751 (-1437)

Buff-cream white dense, fine crystalline, slightly oolitic limestone for the most part, with interbedded varied color shales. There were two breaks in the Lansing.

3830-3839 White-buff medium crystalline limestone. Fair porosity.

3850-3855 Cream-white, chalky, slightly dolomitic, medium crystalline limestone. Fair porosity with a very slight stain.

BASE KANSAS-CITY 4025 (-1711)

Red, gray green shale with streaks buff, dense fine crystalline limestone.

MARMATON 4067 (-1753)

Buff-gray very dense fine crystalline limestone with interbedded varied color shale beds.

TOP PAWNEE 4126 (-1812)

Light gray, dense, fine granular, cherty, shaly, siliceous limestone. Dark gray shale toward the bottom of the formation. Trace red sharp, smooth chert.

TOP FORT SCOTT 4210 (-1896)

4210-4215 Light gray to buff, dense, fossiliferous, cherty, fine crystalline limestone. No apparent show or odor of oil.

4215-4218 Light brown to yellow, porous limestone with slight odor and show of oil.

4218
4218
61

TOP CHEROKEE 4226 (-1912)

White sandy medium crystalline limestone. Well cemented yellow to brown sand. Shaly sand. Trace clear crystalline sandy limestone. Blue-green friable sand. Buff-gray, dense fine crystalline limestone with interbedded varied color shales.

TOP MISSISSIPPIAN BASAL PENNSYLVANIAN CONGLOMERATE 4297 (-1983)

Varied color "Chat", mostly Tripolitic chert.

TOP MISSISSIPPIAN-WARSAW 4307 (-1993)

1 4309-4316 White opaque to sub opaque, blocky, slightly tripolitic chert. Varied color chert with no apparent show and odor of oil.

2 4316-4320 Brown sucrosive dolomitic chert with show and good odor of oil. Good porosity.

3 4320-4325 Brown sucrosive dolomitic chert with interbedded varied color sharp, smooth chert. Fair show and odor of oil. Fair porosity.

Fracture 4316 to 4325 (1 - 0.5 in. product)

4325-4335 White and brown sharp, smooth, slightly glauconitic chert, with interbedded brown dolomitic chert. The white chert had a slight show of oil. The dolomitic chert had a show and odor of oil. Fair porosity.

TOP MISSISSIPPIAN-OSAGE 4339 (-2025)

4339-4361 Varied color sharp, smooth chert with trace of dolomitic chert. Varied color sharp, smooth chert with a trace of rounded quartzitic sand at the base. This section had a good porosity break from 4340 feet to 4350 feet with a very slight show and odor of oil. This section appeared to contain water.

Drill cuttings were examined and described on location, and the geological phase of drilling operations was supervised from 3450 feet to the total depth 4361 feet.

The relative structural position of the subject well Kleweno #1 in comparison to the Pickrell-Kleweno #1 one location east-C SE NW Section 13; Township 17 South; Range 22 West and the Nadel Etal. Myer #1 northwest in Section 12; Township 17 South; Range 22 West.

SUBJECT WELL	PICKRELL-KLEWENO #1	NADEL ETAL MYER#1	
ANHYDRITE	+738	+731	
TOPEKA	-1098	-1108	
HEEBNER	-1394	-1402	-1385
TORONTO	-1415	-1426	-1406
LANSING	-1437	-1447	-1427
BASE KANSAS CITY	-1711	-1716	-1700
MARMATON	-1753	-1765	-1752
PAWNEE	-1812	-1814	-1799
FORT SCOTT	-1896	-1905	-1891
CHEROKEE	-1912	-1918	-1903
MISSISSIPPIAN	-1983 Log top		-1995 ?
WARSAW	-1993	-1999	-1995
OSAGE	-2025	-2009	-2018

There were four drill stems run. One test was run to test the show of oil in the Fort Scott formation. Three tests were run to test the Mississippian formation shows. Following are the results of the four drill stem tests.

<u>PRESSURE DATA AND TIME</u>	#1	#2	#3	#4
Initial Hydrostatic	2264	2297	2275	2275
Initial 1st flow	46	69	92	104
Final 1st flow	46	81	104	115
Initial shut-in	69	1075	1164	1119
Initial 2nd flow	46	81	115	138
Final 2nd flow	46	92	127	138
Final shut-in	58	897	1175	1097
Final Hydrostatic	2242	2264	2242	2253

TOOL OPEN

1st flow	30"	30"	30"	30"
Initial shut-in	30"	30"	30"	30"
2nd flow	5"	30"	60"	10"
Final shut-in	30"	30"	60"	30"

TYPE BLOW

- #1 Weak blow dead in 4 minutes.
- #2 Weak blow decreasing in 2nd flow to very weak intermitant.
- #3 Weak decreasing to very weak steady blow.
- #4 Fair blow throughout both flow periods.

RECOVERY

- #1 5 feet rotary mud.
- #2 2 feet clean oil, 23 feet heavy oil cut mud, 60 feet oil cut mud.
- #3 20 feet heavy oil cut mud, 200 feet oil cut mud.
- #4 65 feet mud with specks of oil, 60 feet water mud with spots of oil.

MILLER TESTING COMPANY of Great Bend, Kansas conducted the drill stem tests.

GREAT GUNS LOGGING COMPANY of Hays, Kansas was used to log the well.

The drill stem test #2 showed favorable conditions of making a commercial oil well with the free oil showing and the heavy oil cut mud. The initial and final pressures had a difference of 178 pounds pressure which indicates in this area it would not make a commercial well.

In light of the preceding discussed facts, it was recommended-regardless of the shows of oil determined by the drill stem tests, and reviewing the Gamma-Neutron log-it was recommended to abandon the hole as being of no commercial value. The plugging of the well was supervised by the Kansas State Corporation from Hays, Kansas.

Sincerely yours,

Marion A. Sundberg

MARION A. SUNDBERG
Petroleum Geologist

BIT RECORD

<u>NO</u>	<u>SIZE</u>	<u>MAKE</u>	<u>TYPE</u>	<u>SERIAL#</u>	<u>FROM</u>	<u>TO</u>	<u>FEET</u>	<u>HOURS</u>
1	7 7/8	Sec.	C-S	Retip	293'	1285'	892'	7 1/4
2	"	Reed	T-S	"	1285'	1580'	295'	1
3	"	"	WMS	"	1580'	1815'	235'	5 3/4
4	"	"	F 53J	210620	1815'	4076'	2261'	105 3/4
5	"	"	FPCM-5	Rerun	4076'	4361'	285'	?