

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

*2nd*

31-9-21W  
COPY

Operator: License # 30259  
Name: Werth Exploration Trust  
Address 1308 Schwaller  
City/State/Zip Hays, Kansas 67601  
Purchaser: N/A  
Operator Contact Person: Andy Werth  
Phone (913) 625-4968  
Contractor: Name: Lloyd Drilling  
License: 3300  
Wellsite Geologist: Cliff Ottaway  
Designate Type of Completion  
 New Well  Re-Entry  Workover  
 Oil  SUD  SIOW  Temp. Abd.  
 Gas  ENHR  SIGW  
 Dry  Other (Core, WSW, Expl., Cathodic, etc)

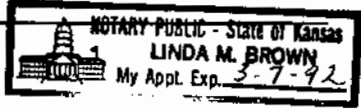
If Workover/Re-Entry: old well info as follows:  
Operator: N/A  
Well Name: \_\_\_\_\_  
Comp. Date \_\_\_\_\_ Old Total Depth \_\_\_\_\_  
 Deepening  Re-perf.  Conv. to Inj/SUD  
 Plug Back  PSTD  
 Commingled  Docket No. \_\_\_\_\_  
 Dual Completion  Docket No. \_\_\_\_\_  
 Other (SUD or Inj?)  Docket No. \_\_\_\_\_  
7/18/91 7/25/91 7/25/91  
Spud Date Date Reached TD Completion Date

API NO. 15- 065 - 22.583  
County Graham  
NW - SW - SE - 31 Sec. 9 Twp. 21 Rge. X E/W  
990 Feet from S (circle one) Line of Section  
2310 Feet from E (circle one) Line of Section  
Footages Calculated from Nearest Outside Section Corner:  
NE, SE, NW or SW (circle one)  
Lease Name Leikam Well # 7  
Field Name Smith - Denning  
Producing Formation Lansing - Arbuckle  
Elevation: Ground 2320 KB \_\_\_\_\_  
Total Depth 3925 PSTD \_\_\_\_\_  
Amount of Surface Pipe Set and Cemented at 229 Feet  
Multiple Stage Cementing Collar Used?  Yes  No  
If yes, show depth set N/A Feet  
If Alternate II completion, cement circulated from \_\_\_\_\_  
feet depth to N/A w/ \_\_\_\_\_ sx cmt.  
Drilling Fluid Management Plan 4-21-87  
(Data must be collected from the Reserve Pit)  
Chloride content 20,000 ppm Fluid volume 2500 bbls  
Dewatering method used Air dry and back fill  
Location of fluid disposal if hauled offsite:  
Operator Name N/A  
Lease Name \_\_\_\_\_ License No. \_\_\_\_\_  
Quarter Sec. Twp. 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 Andy Werth  
Title Trustee & Owner Date 1-27-92  
Subscribed and sworn to before me this 27th day of January  
19 92.  
Notary Public Linda M. Brown  
Date Commission Expires 3-7-92



K.C.C. OFFICE USE ONLY  
F  Letter of Confidentiality Attached  
C  Wireline Log Received  
C  Geologist Report Received  
Distribution  
 KCC  SUD/Rep  NGPA  
 KGS  Plug  Other (Specify)

Operator Name Werth Exploration Trust Lease Name Lansing Well # 7  
 Sec. 31 Twp. 9 Rge. 21  East County Graham  
 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 type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Lansing	3544	-1214
Electric Log Run (Submit Copy.)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			

List All E.Logs Run:

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 Pipe	12 1/4	8 5/8	80	229	Standard	225	60/40 Poz
							6% Gel
							1 sack flo-Gel

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

<b>TUBING RECORD</b>	Size	Set At	Packer At	Liner Run <input type="checkbox"/> Yes <input type="checkbox"/> No
Date of First, Resumed Production, SWD or Inj.	Producing Method <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)			
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio Gravity

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 \_\_\_\_\_

**CLIFTON K. OTTAWAY**  
**CONSULTING PETROLEUM GEOLOGIST**

(913) 628-6900

P.O. BOX 494

HAYS, KANSAS 67601

**COPY**

July 26, 1990

**GEOLOGIC REPORT**

Werth Exploration Trust, Leikam No. 7  
NW SW SE Sec. 31-9-21  
Rooks County, Kansas  
Commenced: 7-18-90  
Completed: 7-24-90

Pipe Record  
8 5/8" @ 209'w140 sk  
D & A Arbuckle  
Anhydrite: 1793-1830  
Drilled by: Lloyd  
Drilling Co.

ELEVATION 2330 K.B.  
2320 G.L.                      2328 D.F.

**FORMATION DATA**  
**CORRECTED TO RA LOG**

FORMATION	MINUS DATA	DEPTH
Topeka .....	- 982 .....	3312
Heebner .....	-1193 .....	3523
Toronto .....	-1214 .....	3544
Lansing-Kansas City .....	-1232 .....	3562
Base Kansas City .....	-1458 .....	3788
Marmaton .....	-1524 .....	3854
Arbuckle .....	-1586 .....	3916
RTD .....	-1595 .....	3925
LTD .....	-1595 .....	3928

Cores: None  
Drill Stem tests: One see below  
Logs: Great Guns R.A. Guard

**FORMATION DESCRIPTIONS**

**TOPEKA: 3312-3522**

The Topeka section was mostly barren limestones and shale stringers. There was a little show in the lower section but it looked wet and the log calculated it to be wet.

**TORONTO: 3544-3555**

This section was white to offwhite fine crystalline, crinoid, slightly cherty limestone with no show.

SEC 23 1991

## LANSING-KANSAS CITY: 3562-3778

This section was mostly chalky limestones and shale stringers. There were a couple benches (C bench & I Bench) that showed some staining and poor porosity. The log showed them to be wet. So they didn't warrant testing.

## MARMATON: 3854-3870

This was an offwhite to tan, fine crystalline limestone and varicolored chert with no oil shows.

## ARBUCKLE: 3916-TD.

The Arbuckle was a offwhite to tan fine to medium crystalline dolomite with poor intercrystalline and vugy porosity. There were traces of free oil, some of which were tarry and asphaltic, dark staining and slight odor. This was included in DST No. 1. The log showed this to be tight.

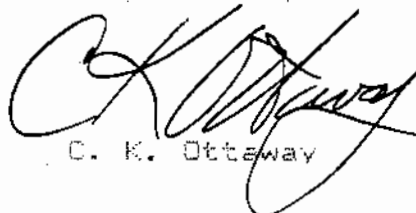
## DRILL STEM TEST NO. 1: 3891-3925

Recovery: 45' muddy water with a few oil spots  
 Times: 60-30-30-30  
 IF: 67-67  
 FF: 76-76  
 ISIP: 1162  
 FSIP: 1133

## RECOMMENDATIONS

Structurally this test well ran ten feet low on the Lansing-Kansas City top to the old producing well to the south and the Arbuckle top was sixteen feet low. This test well was also five feet low on the Lansing-Kansas City top and ten feet on the Arbuckle top to a dry hole to the northeast. There was no porosity development and the formations were tight. Based on these facts and the negative drill stem test results, the lacks of shows in the samples and the log it was recommended to plug and abandon this test hole.

Respectfully submitted



C. K. Ottaway

DEC 28 1931