

9-100-24W

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

COPY

API NO. 15- 065-22,699

County Graham

       -        -        - SW Sec. 9 Twp. 10s Rge. 24 X <sup>E</sup> <sub>W</sub>

523 Feet from (S)N (circle one) Line of Section

2117 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 Anton Herman Well # 4

Field Name Unnamed

Producing Formation LKC

Elevation: Ground 2480 KB 2485

Total Depth 4102 PBDT 4082

Amount of Surface Pipe Set and Cemented at 221 Feet

Multiple Stage Cementing Collar Used? X Yes        No

If yes, show depth set 2168 Feet

If Alternate II completion, cement circulated from 224'

feet depth to Surface w/ 150 60/40 Poz <sup>2% Gel</sup> <sub>3% CC</sub>

Drilling Fluid Management Plan 1-2-5-3 OPD  
(Data must be collected from the Reserve Pit)

Chloride content 68,000 ppm Fluid volume 310 bbls

Dewatering method used Air Dry Evaporation

Location of fluid disposal if hauled offsite:       

Operator Name       

Lease Name        License No.       

       Quarter Sec.        Twp.        S Rng.        E/W

County        Docket No.       

Operator: License # 03655

Name: STAAB ENERGY & LEASING

Address 2514 Haney Drive  
Hays, Kansas 67601

City/State/Zip       

Purchaser: KOCH OIL CO

Operator Contact Person: Norman G. Staab

Phone (913) 628-1326

Contractor: Name: SHIELD DRILLING CO., INC.

License: 5665

Site Geologist: Todd Morgenstern

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  PBDT

Commingled  Docket No.       

Dual Completion  Docket No.       

Other (SWD or Inj?)  Docket No.       

11-09-92 11-16-92 01-04-93

Spud Date Date Reached TD Completion Date

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.

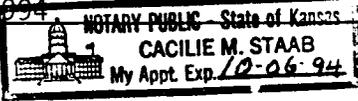
Signature *Norman G. Staab*

Title Owner Date 01-21-93

Subscribed and sworn to before me this 21st day of January, 1993.

Notary Public *Cacilie M. Staab*

Date Commission Expires Oct. 06, 1994



K.C.C. OFFICE USE ONLY

F STATE of Confidentiality Attached

C WIRELINE LOGS Received

C Geologist Report Received

JAN 25 1993

CONSERVATION DIVISION  
WICHITA, KANSAS

NGPA FS  
Other (Specify)

Operator Name STAAB ENERGY & LEASING

Lease Name ANTON HERMAN

Well # 4

Sec. 9 Twp. 10 Rge. 24

East  
 West

County Graham

**INSTRUCTIONS:** Show important tops and base of formations penetrated. Detail all cores. Report all drill stem tests given 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.)

See enclosed Geological Report

Samples Sent to Geological Survey  Yes  No

Cores Taken  Yes  No

Electric Log Run  Yes  No

(Submit Copy.)

Enclosed Logs Listed Below

E. Logs Run:

Dual Compensated Porosity Log

R. A. Guard Log

Correlation Sonic Cement Bond Log

Dual Induction Log

Log Formation (Top), Depth and Datum  Sample

Name	Top	Datum
Anhydrite	2133	+ 352
Anhydrite Base	2168	+ 317
Topeka	3570	-1085
Heebner	3785	-1300
Toronto	3808	-1323
Lansing	3823	-1338
Base KC	4053	-1568
Rotary Depth	4100	-1615
Log Total Depth	4102	-1617

**CASING RECORD**

New Surface - Used 5-1/2"

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	Type and Percent Additives
Surface	12-1/4"	8-5/8"	20#	221	60/40 Poz	150	2% Ge1 3%CE
Prod. 2-Stage	7-7/8"	5-1/2"	14#	4096	ASC	160	500 Ga1 WFR2
Prod. Top Stage	7-7/8"	5-1/2"	14#	2168	50/50 Poz	450	6%Ge1 FloSea

**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 Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	De.
2	16 Shots S.C.C'S LKC	5,000 N-Emulsion Acid	4020-28
		500 Mud Clean Up Acid	

TUBING RECORD	Size	Set At	Packer At	Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
	2-7/8"	4070		
Date of First, Resumed Production, SWD or Inj.	Producing Method <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)			
01-14-93				
Estimated Production Per 24 Hours	Oil 40 Bbls.	Gas	Mcf	Water Bbls. Trace
				Gas-Oil Ratio
				Gravit.

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

4020-4028

COPY

LANSING-KANSAS CITY:

- 3825-3830 Limestone, tan and cream, very finely crystalline, slightly dense, fossiliferous, with fair vugular pinhole porosity, fair staining and saturation, very slight show of free oil, questionable light odor.
- 3856-3859 Limestone, cream and tan, finely crystalline, slightly dense, with fair intercrystalline vugular porosity, scattered spotted staining, very slight show of free oil, no odor.
- 3867-3871 Limestone, cream and tan, very finely crystalline, fossiliferous, with fair intercrystalline pinhole porosity, slightly chalky, fair scattered staining and saturation, slight odor.
- 3896-3908 Limestone, cream, gray and tan, finely crystalline, slightly dense, oolitic, with fair visible interoolitic porosity, very slight show of free oil, slight scattered staining and saturation, no odor.
- 3980-3986 Limestone, tan and gray, finely crystalline, oolitic in part, dense, cherty, with poor visible porosity, scattered spotted staining, very slight show of free oil, no odor.
- 3999-4008 Limestone, tan, gray and light brown, finely crystalline, oolitic and fossiliferous, with poor to fair visible pinhole fossiliferous porosity, fair staining and saturation, very slight show of free oil, light odor.
- 4019-4028 Limestone, gray and cream, finely crystalline, oolitic and fossiliferous, with fair pinhole fossiliferous porosity, some rare interoolitic with fair to good staining and saturation, good show of free oil, light odor. (Covered by D.S.T. No. 1 and 2)

FORMATION TEST NO. 1

3993-4030

Mis-run, packer failure.

FORMATION TEST NO. 2

4000-4030

		I.H.P.	1985#
Strong blow	30 min.	I.F.P.	62#-173#
	30 min.	I.S.I.P.	446#
Strong blow	30 min.	F.F.P.	223#-250#
	30 min.	F.S.I.P.	446#
		F.H.P.	1939#

RECOVERY: 1120' gas in pipe.  
700' gassy oil. (Gravity 40°)

TEMPERATURE: 120°