

STATE CORPORATION COMMISSION OF KANSAS
OIL & GAS CONSERVATION DIVISION

WELL COMPLETION OR RECOMPLETION FORM
ACO-1 WELL HISTORY

DESCRIPTION OF WELL AND LEASE

Operator: License # 4087
Name Williamson Drilling, Inc.
Address 5501 Navajo
City/State/Zip Great Bend, Ks. 67530

Purchaser Koch Oil Company
Wichita, Ks. 67201

Operator Contact Person Terry L. Williamson
Phone 316-793-8229

Contractor: License # 4087
Name Williamson Drilling, Inc.

Wellsite Geologist James C. Musgrove
Phone 316-792-1383

Designate Type of Completion
 New Well Re-Entry Workover
 Oil Gas Dry
 SWD Inj Other (Core, Water Supply etc.)
 Temp Abd Delayed Comp.

If OWWO: old well info as follows:
Operator
Well Name
Comp. Date Old Total Depth

WELL HISTORY

Drilling Method: Mud Rotary Air Rotary Cable
5-19-86 5-24-86 8-1-86
Spud Date Date Reached TD Completion Date
3696' 3618'
Total Depth PBTD
Amount of Surface Pipe Set and Cemented at 225 feet
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set 1720 feet
if alternate 2 completion, cement circulated from 1720 feet depth to C.I. w/ 400 SX cmt

API NO. 15-065-22,316-000

County Graham
SE NW SE Sec. 12 Twp. 7 Rge. 21 East West

1650 Ft North from Southeast Corner of Section
1650 Ft West from Southeast Corner of Section
(Note: Locate well in section plat below)

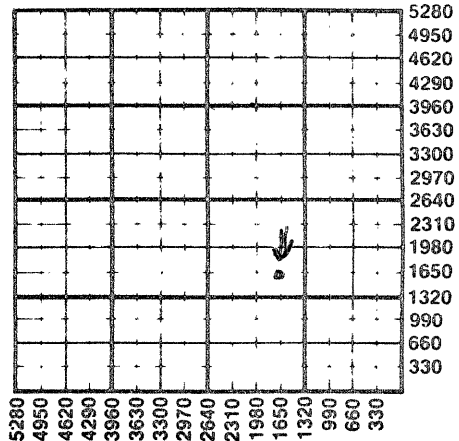
Lease Name Warren Well # 2

Field Name Lesage West

Producing Formation Lansing-Kansas City

Elevation: Ground 2105 KB 2110

Section Plat



WATER SUPPLY INFORMATION

Disposition of Produced Water: Disposal Repressuring
Docket # D-24,782

Questions on this portion of the ACO-1 call:
Water Resources Board (913) 296-3717

Source of Water:
Division of Water Resources Permit # Farm Pond
 Groundwater Ft North from Southeast Corner (Well) Ft West from Southeast Corner of Sec Twp Rge East West
 Surface Water 990 Ft North from Southeast Corner (Stream, pond etc) 1220 Ft West from Southeast Corner Sec 12 Twp 7 Rge 21 East West
 Other (explain) (purchased from city, R.W.D. #)

INSTRUCTIONS: This form shall be completed in duplicate and filed with the Kansas Corporation Commission, 200 Colorado Derby Building, Wichita, Kansas 67202, within 90 days after completion or recompletion of any well. Rule 82-3-130 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 drillers time log shall be attached with this form. 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 Terry L. Williamson
Title Presidency/Williamson Drilling, Inc. Date 8-3-86
Subscribed and sworn to before me this 3rd day of August 1986
Notary Public Kim Williamson
Date Commission Expires 12-20-86



K.C.C. OFFICE USE ONLY
F Letter of Confidentiality Attached
C Wireline Log Received
C Drillers Timelog Received
Distribution
 KCC SWD/Rep NGPA
 KCS Plug Other (Specify)
Form ACO-1 (7-84)

AUG 5 1986 8/5/86

Sec 12 Twp 7 Rge 21

SIDE TWO

Operator Name Williamson Drilling, Inc. Lease Name Warren Well # 2

SE NW SE
 Sec. 12 Twp. 7 Rge. 21 East West County Graham

WELL LOG

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
 Samples Sent to Geological Survey Yes No
 Cores Taken Yes No

Formation Description
 Log Sample

		Name	Top	Bottom
D.S.T. #1	3242-3261 (Topeka), 30-30-30-30	Anhydrite	1694	1726
	Rec. 870' Oil Specked Salt Water	Topeka	3096	3300
	I.H.P. 1632, I.F.P. 58-192,	Heebner	3300	3304
	I.S.I.P. 759, F.F.P. 225-351,	Toronto	3322	3332
	F.S.I.P. 750, F.H.P. 1616	Lansing/K.C.	3336	3528
		Conglomerate	3528	3566
D.S.T. #2	3296-3428 (Lansaing), 30-30-30-30	Arbuckle	3566	3652
	Rec. 270' G.I.P., 510' H.O. & G.	Pre Camb.	3652	3696
	C.M., 180' Oil Specked Water.	R.T.D.		3696
	I.H.P. 1765, I.F.P. 117-234,			
	I.S.I.P. 825, F.F.P. 267-326, F.S.I.P. 808, F.H.P. 1749			

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	Type and Percent Additives
Surface	12 1/2	8 5/8	20	225	50/50 Poz	150	2% Gel, 3% CC
Production	7 7/8	5 1/2	14	3618	60/40 Poz	200	2% Gel, 18% Salt, 75% CFR-2 # Gil/s
		Howco D.V.		1720	Lite	400	

Shots Per Foot	Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
2	3590-92 Arbuckle	250 Gal. Mod 202	3590'
2	3523-25 'K'	1000 Gal. 15% N.E.	3523'
2	3515-17 'J'	1000 Gal. 15% N.E.	3515'
2	3498-3500 'I'	1000 Gal. 15% N.E.	3498'
2	3415-18 'F'	1000 Gal. 15% N.E.	3415'

TUBING RECORD	Size	Set At	Packer at	Liner Run	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
2-Strings	2 1/16"	3588'	3618'		

Date of First Production	Producing Method
8-6-86	<input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (explain).....

Estimated Production Per 24 Hours	Oil	Gas	Water	Gas-Oil Ratio	Gravity
	50 Bbls	MCF	200 Bbls	CFPB	35

METHOD OF COMPLETION Production Interval

Disposition of gas: Vented Sold Used on Lease
 Open Hole Perforation Other (Specify) 3296'-3592'
 Dually Completed Disposal 3618-3696' Open Hole
 Conmingled

Perforation Record: Cont.

Acid, Fracture, Shot, Cement Squeeze Record: Cont.

3392-94	2 shots/ft.	1000 Gal. 15% N.E.	3392'
3374-76	2 shots/ft.	1000 Gal. 15% N.E.	3374'
3324-26	2 shots/ft.	1000 Gal. 15% N.E.	3324'

Swabbed Arbuckle load back and tested for two hours: Non-Commercial, Treated Kansas City zones 'I' thru 'K' with 3000 gals. 15% N.E. and 8 perf balls and swabbed load back, tested for two hours: Swab tested 11 barrels total fluid 77% oil/hr. Treated Toronto thru Lansing 'F' zone with 4000 gals. 15% N.E. and 8 perf balls. Pulled tubing and packers, swabbed load and tested 8 hrs. Swabbed 46 barrels total fluid 35% oil/hr. Shut down to locate equipment. Ran 2 1/16" Duo-Lined tubing along side 2 1/16" production tubing to 3588'. Disposing down Duo-Lined into Arbuckle Open Hole, producing out of Other from Toronto, Lansing-K.C.

RECEIVED
AUG 5 1986

AUG 5 1986

8/5/86

WILLIAMSON DRILLING, INC.

5501 NAVAJO

GREAT BEND, KANSAS 67530

(316) 793-8229

DRILLERS' WELL LOG

DATE COMMENCED: May 19, 1986

DATE COMPLETED: May 24, 1986

Williamson Drilling, Inc.

Warren #2

SE NW SE

Sec. 12, T7S, R21W

Graham County, KS.

SURFACE PIPE: Ran 5 Jts., New 20# 8 5/8" casing. Set @ 225'. Cemented w/150 sks. 50/50 Poz, 2% gel, 3% CC.

PRODUCTION CASING: Ran 91 Jts., Used 14# 5 1/2" casing. Set @ 3618', D.V. tool set @ 1720'. Cemented w/200 sks. 60/40 Poz, 18% salt, .75% CFR-2, 5# Gilsonite/sk. & 400 sks. Halliburton Lite Cement.

ELEVATION: 2105 G.L.
2110 K.B.

0 - 1300'	Surface Soil, Post Rock, Shale & Sand
1300 - 1695'	Redbed
1695 - 1726'	Anhydrite
1726 - 3994'	Shale w/ Lime Stringers
3094 - 3300'	Lime w/Shale Stringers
3300 - 3304'	Carb. Shale
3304 - 3553'	Lime w/Shale Stringers
3553 - 3566'	Conglomerate
3566 - 3654'	Dolomite
3654 - 3696'	Pre-Cambrian
3696'	R.T.D.

A F F I D A V I T

STATE OF KANSAS
COUNTY OF BARTON ss.

Terry L. Williamson of lawful age, does swear and state that the facts and statements herein are true and correct to the best of his knowledge.

Terry L. Williamson

Terry L. Williamson

Subscribed and Sworn to before me this 2nd day of July, 1986.

My Commission Expires

12-20-88

Kim Williamson

Kim Williamson - Public Notary

RECEIVED
STATE NOTARY COMMISSION
GREAT BEND, KANSAS

Kim Williamson
NOTARY PUBLIC
State of Kansas
MY APPT. EXPIRES 12-20-88

AUG 5 1986

8/5/86

[Handwritten signature]