

**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 # 03294
name Walden and Applegate, Inc.
address 134 Union Boulevard # 615
City/State/Zip Lakewood, CO 80228

Operator Contact Person Neil Walden
Phone (303) 985-5237

Contractor: license # 5842
name Gabbert-Jones

Wellsite Geologist Harvey C. Young
Phone (303) 753-0383

Designate Type of Completion

☒ New Well ☐ Re-Entry ☐ Workover

☒ Oil ☐ SWD ☐ Temp Abd
☐ Gas ☐ Inj ☐ Delayed Comp.
☐ Dry ☐ Other (Core, Water Supply etc.)

If ~~CO~~WO: old well info as follows:

Operator
Well Name
Comp. Date Old Total Depth

WELL HISTORY

Drilling Method: ☒ Mud Rotary ☐ Air Rotary ☐ Cable

10/17/86 10/28/86 1/24/87
Spud Date Date Reached TD Completion Date

4750 none
Total Depth PBTD

Amount of Surface Pipe Set and Cemented at 306 feet

Multiple Stage Cementing Collar Used? ☐ Yes ☒ No

If Yes, Show Depth Set feet

If alternate 2 completion, cement circulated
from surface feet depth to 4750 w/ 250 SX cmt

API NO. 15 - 077-21,142

County Harper

NWSNW (location) Sec 31 Twp 31 S Rge 6 West

3580 Ft North from Southeast Corner of Section
4995 Ft West from Southeast Corner of Section
(Note: locate well in section plat below)

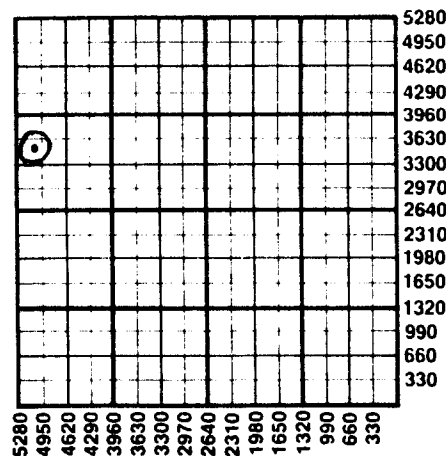
Lease Name K. V. Williams Well# 1

Field Name

Producing Formation Kansas City-Swope

Elevation: Ground 1415 KB 1428

Section Plat



WATER SUPPLY INFORMATION

Source of Water:

Division of Water Resources Permit #

☐ Groundwater Ft North From Southeast Corner and
(Well) Ft. West From Southeast Corner of
Sec Twp Rge ☐ East ☐ West

☒ Surface Water 3580 Ft North From Southeast Corner and
4995 Ft West From Southeast Corner
(Stream, Pond etc.) Sec 31 Twp 31 Rge 6 ☐ East ☒ West

☐ Other (explain)
(purchased from city, R.W.D.#)

Disposition of Produced Water: ☐ Disposal
☐ Repressuring

Docket #

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. Rules 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.

SIDE TWO

Operator Name Walden and Applegate, Inc. Le. Name K.V. Williams Well# 1 SEC. 31 TWP. 31S RGE. 6 ☐ East ☒ West

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

Heebner LS, micro crystalline to fine crystalline, med. to dk. brown, cream to buff to tan, well indurated, dense.

Swope-LS., slightly dolomitic, fine crystalline, dense, also fine packstone, buff to tan, good inter-particle and vugular porosity, some oomoldic and ovoid porosity, good oil staining, good odor.

Marmaton-Siltstone, slightly dolomitic, very argillaceous dk gray, brick red to pale red, fair to good induration, also dolomite, greenish medium gray, well indurated, dense.

Lower Pennsylvanian Conglomerate-Chert, white, lt. gray to md. gray, "welded", chert breccia with fair to excellent porosity, lt. to hvy. oil stain, some pores coated with "tar-like" substance, gas bubbles, also Chert, white, mdm. gray, opaque, blocky, also Claystone, glauconitic, slightly dolomitic, dk. green, well indurated, also Claystones and Siltstones, slightly dolomitic to dolomitic, mdm. gray, limonitic yellow, with finely disseminated Pyrite, also loose Pyrite globules.

Mississippian-Chert, white to lt. gray, buff, blocky, some with light oil staining.

Kinderhook-Claystone, calcareous, greenish lt to mdm gray, some purple to red purple, some grayish purple, poor to fair induration, good fissility, also Siltstone, very argillaceous, slightly dolomitic mdm. gray, fair to good induration, fair fissility, also loose globular Pyrite.

Name	Top	Bottom
Indian Cave	2190	
Elgin	3025	
KC Swope	3869	
Hertha	3907	
Marmaton	4000	
L. Penn Con.	4306	
Miss	4328	
Kinderhook	4577	
Chattanooga	4668	
Simpson	4702	
TD	4750	

Continued on additional page

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
Conductor	17 1/4	13 3/8	68	68	60/40 poz	75	2%gel, 3%cacl
Surface	12 1/4	8 5/8	20	306	60/40 poz	185	" "
Production	7 7/8	5 1/2	J-55	4733	60/40 poz	250	" and 3/4% D31 & S

PERFORATION RECORD

Acid, Fracture, Shot, Cement Squeeze Record

shots per foot	specify footage of each interval perforated	(amount and kind of material used)	Depth
4	3872-3876	250 gal 15% HCl	3872

31-31-6W

Operator- Walden and Applegate, Inc.
 Lease - K. V. Williams
 Well - #1
 31-31S-6W NWSWNW

Formations penetrated, continued

Chattanooga-Siltstone, some slightly dolomitic, carbonaceous, very argillaceous, dark gray to black, fair to good induration, fair to good fissility, with finely disseminated Pyrite

Simpson Sandstone, some dolomitic, very fine to fine grain, moderate sphericity, sub-angular to sub-rounded, clear to lightly frosted, light gray to buff, fair to good induration, some friable, some with light oil staining, good porosity with occasional finely disseminated Pyrite, also some orthoquartzite light gray translucent, with obscure grains, quartz cemented, dense, possibly occurs as "cap" rock.

DST # 1, 3864-3878, 10-60-60-120, GTS 13 min., Gauged thru $\frac{1}{4}$ " choke Stab. @ 28,000 cfm/d in 35 min., rec. 300' gas cut oil 40 api, 180' gas cut heavy oil, 120' gas cut oil and saltwater. IFP:21-61 ISIP:1612 FFP:63-190
 FSIP: 1589 HP: 1819-1854 Chlorides: 75,000ppm BHT: 127F

DST #2 4300-4336', 10-60-60-120, GTS 7 min, gauged thru $\frac{1}{4}$ Choke 10 min 160mcf, 20 min 180 MCF, 30 min 400 MCF, 40 min 460MCF, 50 min 500MCF, 60 min 550 MCF, rec. 120 ft gas cut mud, 70 ft saltwater; IFP: 290-239, IHP:1612
 FFP: 211-525, FSIP: 1672, HP: 2110-2197, chlorides: 114,000ppm, BHT: 142F.

TUBING RECORD size 2 3/8" set at 4000' packer at none		Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Date of First Production 1/24/87	Producing method <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 27 Bbls	Gas 5 MCF	Water 37 Bbls
			Gas-Oil Ratio 200 CFPB
			Gravity 39

Disposition of gas: ☐ vented
☐ sold
☒ used on lease

METHOD OF COMPLETION

☐ open hole ☒ perforation
☐ other (specify)

☐ Dually Completed.
☐ Commingled

PRODUCTION INTERVAL

.....3872-3876.....