

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

Purchaser: KOCH
Designate Type of Completion
 New Well Re-Entry Workover

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

If OWWO: 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 PBSD
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. 15-077-21,142-0000

County Harper

NWSWN Sec 31 Twp 31 S Rge 6 West

3630 3580 Ft North from Southeast Corner of Section
4950 4995 Ft West from Southeast Corner of Section
(Note: locate well in section plat below)

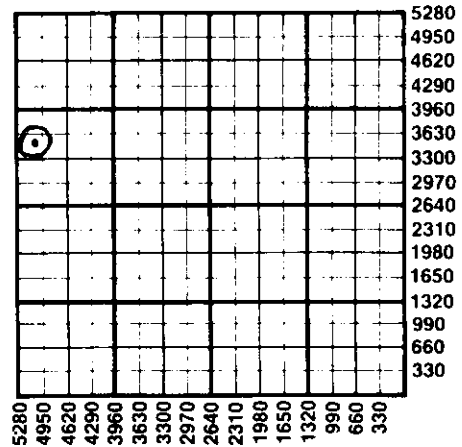
Lease Name K. V. Williams Well# 1

Field Name Scyb

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 Ft. West From Southeast Corner of (Well) Sec Twp Rge East West
 Surface Water 3580 Ft North From Southeast Corner and 4990 Ft West From Southeast Corner 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.

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 Neil Walden
Title President Date 4/17/87

Subscribed and sworn to before me this 17 day of April 19 87

Notary Public Pete Moberg
Date Commission Expires 7/5/89

K.C.C. OFFICE USE ONLY
F Letter of Confidentiality Attached
C Wireline Log Received
C Drillers Timelog Received
Distribution
 KCC SWD/Rep NGPA
 KGS Plug Other
(Specify)
4-22-87
APR 22 1987

Sec. 31 Twp. 31 S Rge. 6 West

SIDE TWO

Operator Name Walden and Applegate, Inc Lease 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 <input type="checkbox"/> new <input checked="" 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
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 & S10
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	
TUBING RECORD				Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
Date of First Production		Producing method					
1/24/87		<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		
	27	5	37	200	39		
	Bbls	MCF	Bbls	CFPB			

Disposition of gas: vented sold used on lease
 METHOD OF COMPLETION open hole perforation other (specify)
 PRODUCTION INTERVAL 3872-3876
 Dually Completed.
 Commingled

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.

STATE COMMISSIONER OF GEOLOGY

APR 22 1987

4-22-87

GEOLOGY DIVISION
 Wichita, Kansas