

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 # 3448  
Name Walter A. Ohmart, Jr.  
Address 1580 Lincoln St., #1180  
Denver, CO 80203  
City/State/Zip

Purchaser

Operator Contact Person Walter A. Ohmart, Jr.  
Phone (303) 830-0197

Contractor: License # 5422  
Name Abercrombie Drilling, Inc.

Wellsite Geologist  
Phone

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

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

WELL HISTORY

Drilling Method:  
 Mud Rotary  Air Rotary  Cable

8-20-87 8-30-87 8-30-87  
Spud Date Date Reached TD Completion Date  
4720'  
Total Depth PBTD

Amount of Surface Pipe Set and Cemented at 382 feet  
Multiple Stage Cementing Collar Used? Yes No  
If yes, show depth set feet  
If alternate 2 completion, cement circulated from feet depth to w/ SX cmt  
Cement Company Name  
Invoice #

API NO. 15-193-20,444-0060  
County Thomas  
NE SE NE Sec. 16 Twp. 10 Rge. 33 East  
West

3630 Ft North from Southeast Corner of Section  
330 Ft West from Southeast Corner of Section  
(Note: Locate well in section plat below)

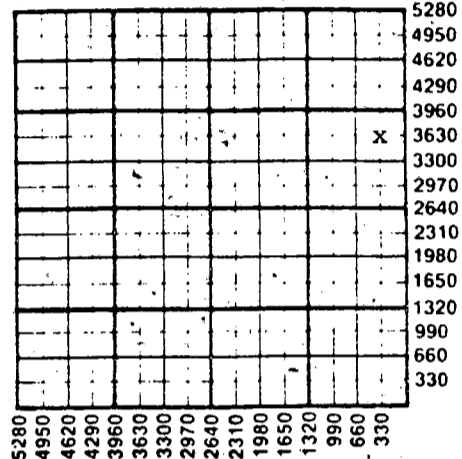
Lease Name Dumler Well # 1-16

Field Name

Producing Formation D+A

Elevation: Ground 3166 KB 3171

Section Plat



WATER SUPPLY INFORMATION

Disposition of Produced Water: Disposal  
Docket # Repressuring

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

Source of Water:  
Division of Water Resources Permit #

Groundwater Ft North from Southeast Corner  
(Well) Ft West from Southeast Corner of  
Sec Twp Rge East West

X Surface Water 3630 Ft North from Southeast Corner  
(Stream, pond etc.) 100 Ft West from Southeast Corner  
Sec Twp Rge East West

X Other (explain) Frank Dumler  
(purchased from city, R.W.D. #)  
611 Elm, Oakley, KS 67748

INSTRUCTIONS: This form shall be completed in triplicate and filed with the Kansas Corporation Commission, 200 Colorado Derby Building, Wichita, Kansas 67202, within 120 days of the spud date of any well. Rule 82-3-130, 82-3-107 and 82-3-106 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 [Signature]

Title [Signature] Date 9/15/87

Subscribed and sworn to before me this 15th day of September 1987

Notary Public

Date Commission Expires 9-24-89

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)  
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SEP 18 1987  
9-18-87 Form ACO-1 (5-86)  
CONSERVATION DIVISION  
Wichita, Kansas

Sec 16 Twp 10 Rge 33E

SIDE TWO

Operator Name Walter A. Ohmart, Jr. Lease Name Dumler Well # 1-16

Sec. 16 Twp. 10 Rge. 33  East  West County Thomas

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

DST #1 - 4257-4307 (H+I) Pipe Strap @ 4310, board 2.35 long, correct test interval from 4260-4310  
 Open 30 min, Shut-in 60 min, Open 60 min, Shut-in 60 min.  
 Rec 30' drilling mud w/few spots oil in top tool  
 IHP 2037 FHP 2037  
 IFP 52-52 FFP 52-52, ISIP 737, FSIP 747

DST #2 (J) 4300-4330, open 30 min, Shut-in 60 min, open 60 min, Shut-in 120 min,  
 Rec 10' 50' M, 2% oil, show free oil in tool  
 IHP 2078 FHP 2047  
 IFP 52-52, FFP 52-52, ISIP 148, FSIP 180

DST #3 (K) 4326-4366, open 30 min, Shut-in 60 min, open 60 min, shut-in 120 min.  
 Rec 10' drilling mud w/few spots of oil (1% oil)  
 IHP 2112 FHP 2112  
 IFP 53-53 FFP 53-53, ISIP 1179, FSIP 1169

DST #4 4366-4410 (L), open 30 min, Shut-in 60 min, open 60 min, Shut-in 60 minutes  
 Rec 20' drilling mud w/few spots of oil (1% oil)  
 Rec 90' muddy water (1/2 wt. % mud)  
 IHP 2133 FHP 2133 IFP 53-53 FFP 53-53  
 ISIP 1336 FSIP 1326; Utr 2400 ppm cl 2%  
 mud 4000 ppm cl.

Formation Description  Log  Sample

Name	Top	Bottom
Anhydrite	2670	
Topelia	3853	
Heebner	4069	
Lansing A	4111	
✓ I	4294	
✓ J	4314	
✓ K	4330	
✓ L	4364	
Base Kansas City	4383	
Paumotu	4527	
Fort Scott	4591	
Cherokee	4610	
Johnson zone	4653	
Mississippian		4716

Welex to send log directly to you.

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	12-1/4	8-5/8	20	382	60/40 pos	180	2% gel 3% c.c.

PERFORATION RECORD

Shots Per Foot	Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth

TUBING RECORD

Size	Set At	Packer at	Liner Run <input type="checkbox"/> Yes <input type="checkbox"/> No

Date of First Production \_\_\_\_\_ Producing Method  Flowing  Pumping  Gas Lift  Other (explain).....

Estimated Production Per 24 Hours	Oil Bbls	Gas MCF	Water Bbls	Gas-Oil Ratio	Gravity

METHOD OF COMPLETION

Disposition of gas:  Vented  Open Hole  Perforation  
 Sold  Other (Specify) .....  
 Used on Lease  Dually Completed  Commingled

Production Interval: .....

## WELL REPORT

Walter A. Ohmart, Jr. #1-16 Dumler  
 1650 FNL, 330 FEL Sec 16-T10S-R33W  
 Thomas Co., Kansas

Elevation 3166 Gr, 3171 KB

Spud 6:00 PM 8-20-87 Reached Total Depth 4720 @ 2:56 AM 8-30-87  
 Surface casing: 373.9' of new 8", 20# set at 381.5 KB with 180 sx 60-40  
 Pozmix, 2% gel, 3% CaCl, circ. to surface.  
 Drilling Contractor: Abercrombie Drilling Co., rig #5-Bill Craig, pusher  
 Drilling mud: Mudco Inc. - Harry Weber  
 Geologist: Gerald O. Bailey  
 Drill stem testing: Western Testers  
 Electrical logging: Welex - Guard Sidewall Neutron Log

Formation Tops	
Cimarron Anhydrite	2670 (+501)
Topeka ls	3853 (-682)
Heebner sh	4069 (-898)
Lansing A	4111 (-940)
I	4294 (-1123)
J	4314 (-1143)
K	4330 (-1159)
L	4364 (-1193)
Base Kansas City	4383 (-1212)
Pawnee	4527 (-1356)
Fort Scott	4581 (-1410)
Cherokee	4610 (-1439)
Johnson zone	4653 (-1482)
Mississippian ls	4716 (-1545)

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CONSERVATION DIVISION  
 Wichita, Kansas

## Morning Reports - 7:00 AM CDT

#1-16 Dumler

Date Depth, Activity

- 8-21 382, WOC. MIR, RU, spud 12 $\frac{1}{2}$ " hole at 6PM 8-20. Drld to 382, set 8 jts-373.9'-of 8 $\frac{1}{2}$ ". Plug down 1:30 AM 8-21. 7 $\frac{1}{2}$  hrs drill surf hole & run csg, 5 $\frac{1}{2}$  WOC.
- 8-22 2330, drlng. Made 1948. 18 $\frac{1}{2}$  hrs drlng, 2 trip,  $\frac{1}{2}$  rig repair, 2 $\frac{1}{2}$  WOC.  $\frac{1}{2}$ ' @ 2268. Native mud, wt 9.2, vis 29.
- 8-23 2980, on bank. WO mech to repair air line. Made 650. 12 $\frac{1}{2}$  hrs drlng, 4 $\frac{1}{2}$  trip, 6 $\frac{1}{2}$  repair, rig serv  $\frac{1}{2}$ .  $\frac{1}{2}$ ' @ 2980. Native mud.
- 8-24 3400, drlng. Made 420. 12 $\frac{1}{2}$  hrs drlng, 2 trip,  $\frac{1}{2}$  reg serv, 8 $\frac{1}{2}$  repair. 35,000 WOB, 70 RPM, 850 psi. Native mud.
- 8-25 3900, drlng. Made 500. 21 $\frac{1}{2}$  hrs drlng, 1 $\frac{1}{2}$  mud up,  $\frac{1}{2}$  rig serv. 68 RPM, 35,000 WOB, 900 psi. Mud wt 9.1, vis 47, wl 8.
- 8-26 4310, circ for DST#1. Made 410. 22 $\frac{1}{2}$  hrs drlng, 1 circ spls,  $\frac{1}{2}$  rig serv. 35,000 WOB, 65 RPM, 850 psi. Mud wt 9.1, vis 45, wl 9.6.  $\frac{1}{2}$ ' @ 4310.
- 8-27 4330, rng DST #2. 2 $\frac{1}{2}$  hrs drlng, 19 $\frac{1}{2}$  POH w/ DST #1-round trip w/ bit-GIH w/ DST #2, 2 circ,  $\frac{1}{2}$  rig serv. Pipe strap @ 4310 found board 3.35 long-correct talley board. Mud wt 9.4, vis 58, wl 10.4
- 8-28 4366, drlng. Made 36. 3 hrs drlng, 1 rig serv-repair, 20 POH w/ DST "2-round trip w/ bit-run DST #3-GIH w/ bit #4. 35,000 WOB, 65 RPM, 850 psi. Mud wt 9.3, vis 54, wl 10.4.
- 8-29 4480, drlng. Made 70. 9 hrs drlng, 12 $\frac{1}{2}$  run DST #4, 2 repair,  $\frac{1}{2}$  rig serv. 35,000 WOB, 65 RPM, 850 psi. Mud wt 9.4, vis 47, wl 10.4.
- 8-30 4720, total depth. 19 $\frac{1}{2}$  hrs drlng, 4 cond hole & trip out for log,  $\frac{1}{2}$  rig serv. Mud wt 9.4, vis 47, wl 10.4.  
Logging completed at 1:30 PM 8-30-87.  
Will P&A as instructed by Kansas Corp. Comm.

## Bit Record

No.	Size	Make	Type	Out at	Footage	Hours run
Surf	12 $\frac{1}{2}$	Security	S-3 rr	382	382	
1	7 $\frac{1}{2}$	Smith	DSJ	2268	1886	17 $\frac{1}{2}$
2	"	"	DTT	2980	712	13 $\frac{1}{2}$
3	"	Security	S84Frr	4386	1386	62 + 75 prior
4	"	Reed	HS51rr	4410	44	2 $\frac{1}{2}$ + 92 $\frac{1}{2}$ prior
5	"	Security	S84Frr	4720	310	25 $\frac{1}{2}$

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Drill Stem Tests

#1-16 Dumlér

DST #1 4257-4307 (H & I). Pipe strap at 4310, board 3.35 long, correct test interval from 4260-4310.

Open 30, shut in 60, open 60, shut in 120 minutes.

Rec. 30 drlng mud with few spots oil in top of tool - <1% oil

IHP 2037 FHP 2037

IFP 52-52 FFP 52-52 ISIP 737 FSIP 747

*4300-4330*

DST #2 (J). Open 30, Shut in 60, open 60, shut in 120 minutes.

Rec. 10 SOCM - 2% oil, show of free oil in tool.

IHP 2078 FHP 2047

IFP 52-52 FFP 52-52 ISIP 148 FSIP 180

*4326-4366*

DST #3 (K). Open 30, shut in 60, open 60, shut in 120 minutes.

Rec. 10 drlng mud with few spots of oil, <1% oil.

IHP 2112 FHP 2112

IFP 53-53 FFP 53-53 ISIP 1179 FSIP 1169

DST #4 4366-4410 (L). Open 30, shut in 60, open 60, shut in 120 minutes.

Rec. 20 drlng mud w/ few spots of oil (<1% oil), 90 muddy water (½ wtr, ½ mud). IHP 2133 FHP 2133

IFP 53-63 FFP 63-74 ISIP 1336 FSIP 1336

Water 22,000 ppm cl. Drlng mud is 4000 ppm cl.

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Discussion

#1-16 Dumler

The #1-16 Dumler was drilled as a direct offset to a producing well, the Slawson #1-0 Nollette, which is currently making 16.7 BOPD after having recovered over 90,000 BO. All four of the producing zones were found to have shows in the #1 Dumler, but with poorly developed porosity.

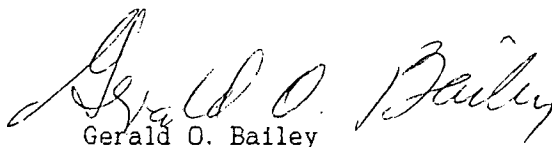
Each zone was tested, but the Lansing J was the only one that yielded any amount of oil, being 10' SOCM. The porosity zones are thin, but each one contains visible oil staining in the pores.

Electrical logs show that the following characteristics exist:

Zone	Porosity, Top	Structure vs #1-0	DST Rec.
H	3', max 7% @ 4265	6' low	30 DM
I	3', max 6% @ 4399	8' low	same test AA
J	3', max 5% @ 4323	1' low	10 SOCM
K	4', max 5% @ 4338	2' low	10 DM
L	6', max 6% @ 4372	2' low	90 mdy wtr

L zone does not produce in #1-0

After careful consideration and discussion it was concluded that, because of the low porosities and lack of oil recoveries on drill stem tests, the probability of completing a successful oil producer was extremely small. Therefore the well was plugged.

  
Gerald O. Bailey

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Wichita, Kansas

Sample Descriptions - Depths not lagged -

#1-16 Dumler

Depth	Description
3800-10	Lt tan micro oolitic (sucrose) limestone, lt gray and red shale
20	Limestone as above, some black shale
30	White brittle sucrose limestone
40	As above & gray nodular limestone
50	Tan sucrose & gray shaley nodular limestone, gray shale
60	AA
70	Tan hard spicular & tan sucrose limestone
80	AA
90	Lt tan soft sucrose limestone
3900	AA & Tan hard spicular limestone
10	Tan sucrose limestone, some brown interbedded shale, gray shale
20	AA
30	AA
40	Lt tan -lt gray soft sucrose & slightly spicular limestone
50	AA
60	AA
70	AA
80	AA
90	AA & gray shaley limestone
4000	AA
10	Lt tan sucrose slightly calcitic limestone
20	AA
30	AA
40	AA & lt gray limestone
50	AA
60	AA & gray mottled limestone - trace DOS - no fluorescence
70	Tan-lt gray sucrose calcitic pyritic limestone, trace DOS, no fluor.
80	Limestone AA - no DOS
90	Tan & gray dense limestone with dark gray shale inclusions, pyrite
4100	AA with black shale
10	AA with chert, black shale
20	Tan-gray dense cherty limestone
30	Tan sucrose & slightly crinoidal -lt gray dense pyritic limestone & red clay. Trace DOS, no fluor.
40	Lt tan dense slightly chalky & cherty pyritic limestone
50	AA
60	Lt tan dense-slightly chalky-fossiliferous pyritic limestone, slight DOS - no fluor
70	Pyritic limestone AA
80	AA
90	Lt tan dense-chalky fossil cherty limestone
4200	AA & sucrose limestone
10	Tan dense slightly cherty limestone
20	AA
30	AA

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## #1-16 Dumler

- 4240 Tan sucrose limestone with pyrite & chert  
 50 AA with chalk  
 60 Tansucrose cherety pyritic & lt gray argillaceous limestone  
 70 AA & brown pyritic hard dense limestone, black shale  
 75 AA, few pieces with v. slight fluor  
 80 Hard limestone, increased fluor, v. little visible porosity  
 90 White hard dense limestone  
 4300 Tan & brown hard dense brittle slightly cherty limestone, some soft with slight fluor  
 10 Limestoned AA, fossil, trace with stain & fluor  
 4310 circ 15 min Tan-brown hard pyritic slightly fossil limestone, small amount with slight stain & fluor-fair cut  
 circ 30 min AA, indication of pyrite & calcite filled vugs  
 circ 45 min AA & lt-dark gray-black shale. V sso

DST 4260-4310 corrected to 4257-4307

- 4320 Nearly all cavings-all prior lithologies, brown hard fossil ls  
 30 Lt tan hard limestone, cherty & pyritic, slightly chalky, indication of small vugs-good odor & fluor  
 4330 circ 15 min AA with visible porosity containing oil  
 circ 30 min AA, free pyrite  
 circ 45 min AA  
 circ 60 min AA

DST 4300-30

- 4340 Predominantly cavings. Limestone AA, dark-lt gray-green-red shale  
 50 Gray-lt tan hard coquina with stain & fluor, lt tan sucrose slightly chalky & cherty limestone with slight stain & fluor  
 60 Cherety rtan dense-sucrose slightly fossil limestone with slight stain & fluor  
 65 AA-slight stain & fluor  
 4366 circ 15 min V hard cherty dense slightly fossil limestone-slight porosity with stain  
 circ 30 min AA but chalky - slight amount of fluor  
 circ 45 min Tan dense cheerty, brown-gray coquina & tan-white chalky limestone-v,slight porosity with show oil  
 circ 60 min AA

DST 4326-66

- 4370 Predominantly cavings  
 80 Lt tan cherty fossil limestone, gray shale  
 90 Limestone AA with visible porosity & oil stain, free pyrite  
 4400 Lt tan-v lt gray fossil slightly cherty limestone-some chalky-some slight porosity-v little show  
 10 V lt tan & brown mottled cherety fossil slightly chalky limestone, some visible crystal lined vugs with stain

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## #1-16 Dumler

4410 circ 15 min AA, no show  
 circ 30 min Limestone AA-visible porosity with stain & fluor  
 circ 45 min Limestone AA & brown nodular glauconitic limestone,  
 lt gray-pale green shale  
 circ 60 min Lt tan fossil slightly porous & chalky limestone-stain  
 in pores, black pyritic micrite

DST 4366-4410

4420 Lt tan sucrose-fossil-chalky & lt gray dense limestone, gray shale  
 30 AA  
 40 Lt tan hard dense slightly fossil limestone, trace calcite  
 50 AA  
 60 AA, gray shale  
 70 AA  
 80 Tan & gray hard dense limestone, gray shale  
 90 AA  
 4500 AA  
 10 AA  
 20 AA  
 30 Lt gray-brown hard argillaceous limestone, gray shale  
 40 AA  
 50 Lt tan dense cherty limestone  
 60 Black cheert, lt tan-gray-brown limestone, gray shale  
 70 Dk brown mottled limestone & AA  
 80 Lt tan & gray mottled cheerty slightly pyritic to chalky lime-  
 stone, gray shale  
 90 AA  
 4600 Tan hard cherty fossil & lt tan slightly chalky limestone, gray  
 shale  
 10 AA  
 20 Tan & brown hard mottled limestone, black & gray shale  
 30 Brown mottled cherty limestone, pale green & gray shale  
 40 AA  
 50 AA  
 60 AA, with pyrite  
 70 Lt tan-brown, some mottled cherty limestone, pale green & gray  
 shale  
 80 AA  
 90 AA  
 4700 AA  
 10 Tan & gray mottled limestone, interbedded dk gray shale, pale  
 green-yellow & gray shale  
 20 AA  
 4720 circ 15 min Orange conglomerate: yellow & orange cheert, round  
 quartz grains, pale green & gray shale, limestone AA  
 circ 30 & 45 min AA  
 Circ 60 min White-v. lt gray dense limestone, shale & congl-AA

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