

10/3/85
10-3-86
KOA

STATE CORPORATION COMMISSION OF KANSAS
OIL & GAS CONSERVATION DIVISION

WELL COMPLETION OR RECOMPLETION FORM
ACO-1 WELL HISTORY

DESCRIPTION OF WELL AND LEASE

CONFIDENTIAL

Operator: License # 5886
Name .. Chief Drilling Co., Inc.
Address .. 905 Century plaza
Wichita, Ks. 67202
City/State/Zip ..

Purchaser... Koch ..

Operator Contact Person .. F.W. Shelton Jr.
Phone .. 316-262-3791

Contractor: License # 5883
Name .. Warrior Drilling Co.

Wellsite Geologist .. Mitch Allen
Phone .. 316-262-3791

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

5-24-85	6-04-85	7-03-85
Spud Date	Date Reached TD	Completion Date
4300'	4003'	
Total Depth	PBTD	

Amount of Surface Pipe Set and Cemented at 302' feet
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set... 1803' feet
If alternate 2 completion, cement circulated from 1803' feet depth to surface 450' cmt

API NO. 15-.....-063-20,923
County.....Gove
NE SE SW Sec. 9 Twp. 15 Rge. 26 East West

..... Ft North from Southeast Corner of Section
.2970... Ft West from Southeast Corner of Section
(Note: Locate well in section plat below)

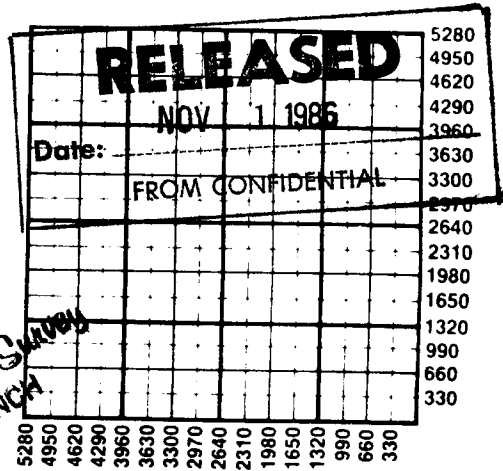
Lease Name.....Norton "A" Well #. 1

Field Name.....Gove Co., Ks.

Producing Formation..Lansing 180-200 zone...

Elevation: Ground..2370 2392 KB..2375

Section Plat



AUG 1 1985
State Geological Survey
WICHITA BRANCH

WATER SUPPLY INFORMATION

Disposition of Produced Water: Disposal Repressuring
Docket # ..

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 NE SW NW Sec 9 Twp 15 Rge 26 East West
Mike Kuntz farmer, hauled by Cheyenne
 Surface Water.....Ft North from Southeast Corner (Stream, pond etc).....Ft West from Southeast Corner Sec Twp Rge East West

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

METHOD OF COMPLETION

Production Interval

Disposition of gas: Vented Sold Used on Lease

Open Hole Perforation Other (Specify)

Dually Completed Conmingled

I zone

3858-3865
3884-3889

696289

Operator Name **Chief Drilling Co., Inc.** Lease Name **NORTON "A"** Well #.....

Sec. **9** Twp. **15S** Rge. **26 W** East West County **Gove**

WELL LOG

Estimated Production Per 24 Hours	Oil	Gas	Water	Gas-Oil Ratio	Gravity
45 bbls.	45 Bbls	-0- MCF	-0- Bbls	CFPB	41

Drill Stem Tests Taken Yes No
 Samples Sent to Geological Survey Yes No
 Cores Taken Yes No

Formation Description Log Sample

DST #1 3782-3840 Lans 140-160 zn. 30-30-30 very wk. blow died in 20 min., Rec. 40' M, IBHP: 983# FBHP: 491#, IFP: 89-89 FFP: 89-89
 DST #2 3844-3875 LKC 180 zn. 30-45-90-60 1st open: VSB off btm bucket, 2nd open: VSB off btm bucket, gas to surf. at end of final shut in., Rec. 360' total fluid 110' CGO, 250' SGMCO (79%O, 13%M, 8%G) IBHP: 419#, FBHP: 401#, IFP: 89-107 FFP: 137-178 48 gravity @ 80' temp.
 DST #3 3870-3940 Lans. 200-220 zn. 30-45-90-60 1st open fair bl bldg, 2nd open fair bl bldg to strong bl. Rec. 200' GIP 560' Total fl. 125' OCM (14% O, 22%G, 64 M) 435' S1GMCO (62%O, 10%G, 28%M) IBHP: 1210#, FBHP: 1119# IFP: 133-160 FFP: 223-267
 DST #4 3921-3987 Pleasanton & Marm. top 30-30-30-30 Rec. 30' M; IBHP: 89#, FBHP: 80#, IFP: 80-80 FFP: 80-80
 DST #5 4126-4166 Ft. Scott 30-30-30-30 Rec. 30' M; IBHP: 223#, FBHP: 107#, IFP: 89-89 FFP: 89-89
 DST #6 4205-4255 Miss. 30-30-30-30 Rec. 15' M, w/few O spots, IBHP: 401#, FBHP: 178#, IFP: 88-88 FFP: 88-88
 DST #7 4205-4263 Miss. 30-30-30-30 Rec. 60' M, IBHP: 625#, FBHP: 491#, IFP: 107-107 FFP: 107-107 DST #8 4251-4275 Miss. 30-45-75-45 Rec. 90' M, w/light oil skim on top of tool, IBHP: 983#, FBHP: 849#, IFP: 71-71 FFP: 80-80

FORMATION TOPS:	E-LOG TOPS:
Anhydrite 1798 + 577	Anhydrite 1798 + 577
Base Anhydr. 1830 + 545	Base Anhydr. 1836 + 539
Heebner 3593 - 1218	Heebner 3594 - 1219
Toronto 3613 - 1238	Toronto 3613 - 1238
Lansing 3630 - 1255	Lansing 3630 - 1255
Muncie Cr. 3784 - 1409	Muncie Creek 3785 - 1410
Stark 3872 - 1497	Stark 3875 - 1500
Hush Puckney 3907 - 1532	BKC 3932 - 1557
Pleasanton 3929 - 1554	Marmaton 3965 - 1590
Marmaton 3963 - 1588	Pawnee 4038 - 1663
Pawnee 4036 - 1661	Ft. Scott 4139 - 1764
Ft. Scott 4136 - 1761	Cherokee Shale 4169 - 1794
Cherokee Shale 4161 - 1786	Johnson zone 4202 - 1827
Johnson zone 4195 - 1820	Miss. Dolom. 4240 - 1865
Mississ. Dolom. 4244 - 1869	LTD 4298 - 1923
RTD 4300 - 1925	

Well log

clay	0	453
clay shale	453	1798
anhydr.	1798	1836
shale	1836	2345
lime/shale	2345	3214
lime	3214	4300

RTD

CONFIDENTIAL

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#	3021	no mix.	175	2% gel, 3% cc
production	7 7/8"	4 1/2"	10.5#	4018	common	200	2% gel, 3% gills

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	3884-3889 acidized 600 gal. total acid	acid on perfs @ .1" interval	
	acidized w/2000 gal. SGA. 15% acid	36 bbls per min @ .0# press.	
4	perf. 3858-3865 treated w/1000 gal. SGA. 15%	5 hb per min	

TUBING RECORD Size 2 3/8" Set At 3,994.86 Packer at 3840' Liner Run Yes No

Date of First Production 7-03-85 Producing Method Flowing Pumping Gas Lift Other (explain).....