11/28/85
11-28-86 S

SIDE ONE

KCC

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, Kansas 67202
City/State/Zip

Purchaser KOCH OIL COMPANY

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

Contractor: License # 5883
Name Warrior Drilling Co.

Wellsite Geologist Mitch Allen
Phone 316-262-3791

SEP 30 1985

State Geological Survey
WICHITA BRANCH

Designate Type of Completion
[X] New Well [ ] Re-Entry [ ] Workover

[X] 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

API NO. 15- 063-20,944

County GOVE

NE NW NE Sec. 16 Twp. 15S Rge. 26W [ ] East [X] West

4950 Ft North from Southeast Corner of Section
1650 Ft West from Southeast Corner of Section
(Note: Locate well in section plat below)

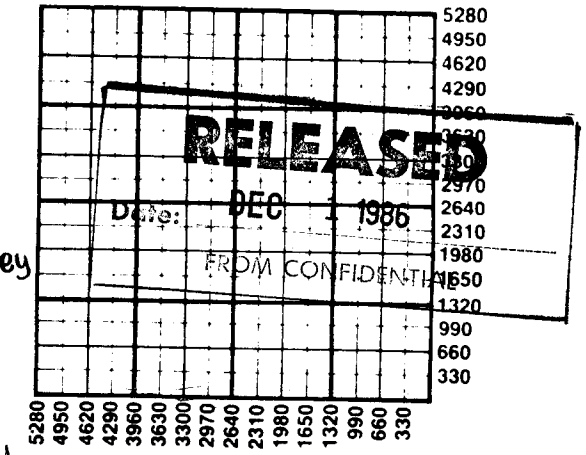
Lease Name NORTON B Well # 1

Field Name SACKA

Producing Formation Mississippi

Elevation: Ground 2356 GR 2359 KB DF 2361 KB

Section Plat



WATER SUPPLY INFORMATION

Disposition of Produced Water: [ ] Disposal
Docket # [ ] Repressuring

WELL HISTORY

Drilling Method:
[X] Mud Rotary [ ] Air Rotary [ ] Cable

7-15-85	7-23-84	8-28-85
Spud Date	Date Reached TD	Completion Date

4250 RTD	NA
Total Depth	PBTD

Amount of Surface Pipe Set and Cemented at 295' @ 298' feet
Multiple Stage Cementing Collar Used? [X] Yes [ ] No
If yes, show depth set 1814' feet
If alternate 2 completion, cement circulated
from 1814 feet depth to surf w/ 20bbl gel sx cmt
lush, 200 sx. common, 2% gel, 3% gils.

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

Source of Water:
Division of Water Resources Permit #
112' deep
[X] Groundwater Ft North from Southeast Corner
(Well) Ft West from Southeast Corner of
NE SW NW Sec 9 Twp 15 Rge 26 [ ] East [X] West

[ ] 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

Disposition of gas: [ ] Vented [ ] Sold [ ] Used on Lease

[X] Open Hole [ ] Perforation
[ ] Other (Specify)

[ ] Dually Completed
[ ] Commingled
x single

Production Interval
4236'
14' open hole

696639

SIDE TWO

Operator Name Chief Drilling Co., Inc. Lease Name NORTON "B" Well # 1

Sec. 16 Twp. 15S Rge. 26W ☐ East ☒ West County GOVE COUNTY

WELL LOG

	Oil	Gas	Water	Gas-Oil Ratio	Gravity
Estimated Production Per 24 Hours	40 Bbls	-0- MCF	-0- Bbls	CFPB	34

Drill Stem Tests Taken ☒ Yes ☐ No

Samples Sent to Geological Survey ☒ Yes ☐ No

Cores Taken ☐ Yes ☒ No

7-20-85 DST #1 (Lans. 180 z) 3850-3882 30-30-30-45 Initial blow, wk. blow died in 16 min., 2nd open, no blow Rec. 5' very slight oil speckeled mud, IBHP: 51# FBHP: 58# IFP: 35-35 FFP: 35-40

7-21-85 DST #2 (Lans. 200z) 3876-3915 30-60-90-60 Initial blow, strong blow off bottom of bucket in 8", final blow, strong blow off bottom of bucket in 35", Rec. 30' Gas above fluid, 60' O & GWM, (22%O, 5%G, 43%W, 30%M,) 600' slightly O & slightly GCSW, 3%O, 73,000 parts per million chloride, IBHP: 1223# FBHP: 1065#, IFP: 69-150 FFP: 173-347

7-22-85 Drilling @ 4170' DST #3 4129-4210 (FtScott&Johns) 30-30-30-30 Initial blow wk. blow died in 16", Final blow, wk. blow died in 3", Rec. 12' M, w/O sp. on top, IFP: 69-69 FFP: 69-69 IBHP: 405 FBHP: 173

7-23-85 Drilling @ 4250' DST #4 (Miss) 4206 4250 30-45-75-60 Initial blow - wk. blow bldg. to 4 1/2" blow, 2nd blow-wk. blow bldg. to 6" blow, Rec. 120' Gabove Fluid, 100' CGO, 120' HOCM, (15%G, 40%O, 1%W, 44%M,) 20' OCM, (18%G, 32%O, 50%M) grav. 37 @ 60

chlorides 26,000 parts per million IBHP: 1152#, FBHP: 1034#, IFP: 84-96 ~~FFP: 96 133~~

Formation Description

☒ Log ☒ Sample

Name	Top	Bottom
FORMATION TOPS:		
Anhydrite	1798	+ 563
Base Anhydr.	1828	+ 533
Heebner	3595	- 1234
Lansing	3632	- 1271
Muncie Creek	3789	- 1428
Stark	3878	- 1517
BKC	3938	- 1577
Marmaton	3964	- 1603
Pawnee	4038	- 1677
Ft. Scott	4138	- 1777
Cherokee	4162	- 1801
Mississippi	4234	- 1873
RTD	4250	- 1889
E-LOG TOPS:		
Anhydrite	1796	+ 565
B/Anhydr.	1832	+ 529
Heebner	3596	- 1235
Toronto	3614	- 1253
Lansing	3633	- 1272
Muncie Cr.	3790	- 1429
Stark	3877	- 1516
BKC	3939	- 1578
Marmaton	3966	- 1605
Pawnee	4039	- 1678
Ft. Scott	4142	- 1782
Cherokee Shale	4167	- 1806
Mississippi	4232	- 1871
LTD	4247	- 1886

Well Log

Sand/clay	0	1345
shale	1345	1798
anhydrite	1798	1828
shale	1828	3878
lime/shale	3878	4123
Lime	4123	425 RTD

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#	set @ 298'	com w/170	sks.	60-40 posmix
							3% c.c. 2% gel
				4236'			2% gel 3% gilsonite
production 7	7/8	4 1/2"	10.5#	cem w/20 bbl gel flush		200	sx. common

PERFORATION RECORD

Shots Per Foot	Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
	acidized w/250 gal 15% INS 1/4 bbl per min, 750# max press load 73 1/2 bbls		

TUBING RECORD Size 2 3/8" Set At 4186.55' Packer at

Liner Run ☐ Yes ☒ No

Date of First Production 8-28-85

Producing Method ☐ Flowing ☒ Pumping ☐ Gas Lift ☐ Other (explain)