

NP 68322

TYPE

AFFIDAVIT OF COMPLETION FORM

ACO-1 WELL HISTORY

SIDE ONE

Compt. \_\_\_\_\_

(Rules 82-3-130 and 82-3-107)

This form shall be filed with the Kansas Corporation Commission, 200 Colorado Derby Building, Wichita, Kansas 67202, within ninety (90) days after the completion of a well, regardless of how the well was completed.

FOR INFORMATION REGARDING THE NUMBER OF COPIES TO BE FILED AND APPLICATIONS REQUIRING COPIES OF ACO-1 FORMS SEE PAGE TWO (2), SIDE TWO (2) OF THIS FORM.

F \_\_\_\_\_ Letter requesting confidentiality attached.

C  Attach ONE COPY of EACH wireline log run (i.e. electrical log, sonic log, gamma ray neutron log etc.)\*\*\*Check here if NO logs were run \_\_\_\_\_.

PLEASE FILL IN ALL INFORMATION. IF NOT AVAILABLE, INDICATE. IF INFORMATION LATER BECOMES AVAILABLE, SUBMIT BY LETTER.

LICENSE # 5886 EXPIRATION DATE 6-30-83

OPERATOR Chief Drilling Co., Inc. API NO. 15-101-20,766-0000

ADDRESS 905 Century Plaza COUNTY LANE  
Wichita, Ks. 67202 FIELD TERWILLIGER SD.

\*\* CONTACT PERSON F.W. Shelton, Jr., Vice Pres. PROD. FORMATION Cherokee limesto  
PHONE 316-262-3791

PURCHASER Koch Oil Company LEASE TERWILLIGER "B" #1

ADDRESS P.O. BOX 2256 WELL NO. #1  
Wichita, Ks., 67201

DRILLING Warrior Drilling Co., Rig #2 2310ft. from south Line of Sec.

CONTRACTOR ADDRESS 905 Century Plaza 2310ft. from east Line of Sec.

Wichita, Ks. 67202 the SE (Qtr.) SEC 7 TWP 17S RGE 2RW(W).

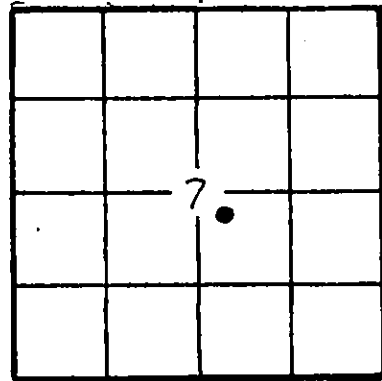
PLUGGING None WELL PLAT (Office Use Only)  
CONTRACTOR ADDRESS \_\_\_\_\_ KCC   
KGS

TOTAL DEPTH RTD 4605 LTD 4609 PBTD SWD/REP \_\_\_\_\_  
SPUD DATE 3-15-83 DATE COMPLETED 3-29-83 PLG. \_\_\_\_\_

ELEV: GR 2781 DF 2785 KB 2788 NGPA \_\_\_\_\_

DRILLED WITH ~~(CABLE)~~ (ROTARY) ~~x~~ TOOLS.

DOCKET NO. OF DISPOSAL OR REPRESSURING WELL BEING USED TO DISPOSE OF WATER FROM THIS LEASE \_\_\_\_\_



Amount of surface pipe set and cemented 6 its. 281' DV Tool Used? no

TYPE OF COMPLETION THIS AFFIDAVIT APPLIES TO: (Circle ONE) Oil, Shut-in Gas, Gas, Dry, Disposal, Injection, Temporarily Abandoned. If OWWO, indicate type of re-completion \_\_\_\_\_. Other completion \_\_\_\_\_. NGPA filing \_\_\_\_\_

ALL REQUIREMENTS OF THE STATUTES, RULES AND REGULATIONS PROMULGATED TO REGULATE THE OIL AND GAS INDUSTRY HAVE BEEN FULLY COMPLIED WITH.

A F F I D A V I T

F.W. SHELTON, JR., VICE PRESIDENT being of lawful age, hereby certifies that:

I am the Affiant, and I am familiar with the contents of the foregoing Affidavit. The statements and allegations contained therein are true and correct.

F.W. Shelton, Jr.  
(Name)  
F.W. SHELTON, JR., VICE PRES.

SUBSCRIBED AND SWORN TO BEFORE ME this \_\_\_\_\_ day of \_\_\_\_\_,

19\_\_\_\_.



MY COMMISSION EXPIRES \_\_\_\_\_

Martha E. Gustin  
(Name)  
MARTHA E. GUSTIN

5-23-83  
MAY 23 1983

\*\* The person who can be reached by phone regarding any questions concerning this information. CONSERVATION DIVISION Wichita, Kansas

SIDE

ACO-1 WELL HISTORY (E)

OPERATOR Chief Drilling Co., Inc. LEASE Terwilliger SEC. 7 TWP. 17S RGE. 28W (W)

FILL IN WELL INFORMATION AS REQUIRED:

WELL NO. #1

Show all important zones of porosity and contents thereof; cored intervals, and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries.

SHOW GEOLOGICAL MARKERS, LOGS RUN, OR OTHER DESCRIPTIVE INFORMATION

FORMATION DESCRIPTION, CONTENTS, ETC.	TOP	BOTTOM	NAME	DEPTH
Check if no Drill Stem Tests Run.			FORMATION TOPS:	
Check if samples sent to Geological Survey			Anhydrite	2176 + 612
3-22-83 DST #1 4114 - 4170 120 & 140 zone of Lansing 30-30-60-45 very weak blow for 90 min., Rec. 40' gas in pipe, 40' slightly gas cut mud, IBHP: 70# FBHP: 50#, FP: 50-50			Base Anhydr.	2205 + 583
			Heebner	3936 - 1148
			Lansing	3975 - 1187
			Stark	4228 - 1440
			BKC	4308 - 1520
			Marm.	4327 - 1539
			Pawnee	4420 - 1632
			Ft. Scott	4474 - 1686
			Cherokee	4498 - 1710
			Mississippi	4573 - 1785
			RTD	4605 - 1817
			ELECTRIC LOG TOPS:	
			Anhydr.	2176 + 612
			B. Anhydr.	2205 + 583
			Heebner	3937 - 1149
			Lansing	3973 - 1185
			Stark	4228 - 1440
			BKC	4315 - 1527
			Marmaton	4330 - 1542
			Pawnee	4423 - 1635
			Ft. Scott	4476 - 1688
			Cherokee	4499 - 1711
			Miss.	4573 - 1785
			LTD.	4609 - 1821
3-23-83 DST#2 4164 - 4204 lansing 160 zone 30-30-60-45 very wk. blow for 90 min., Rec. 10' muddy water w/few oil spots IBHP: 765#, FBHP: 690#, FP: 50-50				
3-23-83 DST#3 4200 - 4236 Lansing 180 zone 30-30-30-30 strong blow throughout Rec. 680' gas in pipe, 280' muddy gassy oil, 30' heavy oil cut mud, 180' muddy water, IBHP: 975#, FBHP: 975#, FP: 50-225				
3-24-83 DST #4 4222 - 4258 Lansing 200 zone 30-30-30-30 strong blow throughout, Rec. 700' Gas in pipe, 200' gassy muddy oil IBHP: 925# FBHP: 910#, FP: 50-50				
3-24-83 DST #5 Lansing 220 zone 4252 - 4310 30-30-60-30 strong blow throughout, Rec. 410' gas in pipe, 130' muddy gassy oil, 90' heavy oil cut mud, 90' slightly oil cut mud, 270' muddy water, IBHP: 1160#, FBHP: 1135#, FP: 50 - 300				
3-25-83 DST #6, (4296-4356) U. Marm. 30-30-60-30, 2380' GIP, 770' clean oil, 40° gravity, 450' muddy oil, IBHP: 950, FBHP: 760, FP: 50 - 490				

continued

If additional space is needed use Page 2,

Report of all strings set -- surface, intermediate, production, etc. CASING RECORD (New) or (Used)

Purpose of string	Size hole drilled	Size casing set (in O.D.)	Weight lbs/ft.	Setting depth	Type cement	Secks	Type and percent additives
Surface	12 1/4	8 5/8	20#	290'	50-40 posmik	200sx.	3% c.c. 2% gel
Production		4 1/2"	10.5#	4603'	60-40 posmik 50-50 posmik	250 sx. 500 sx.	salt sat. bot: 6% gel top:

LINER RECORD

PERFORATION RECORD

Top, ft. --	Bottom, ft. --	Secks cement --	2 shots per	per	Size & type	4541 - 4549
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TUBING RECORD

Size 2 3/8"	Setting depth 4572'	Pecker set at --
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ACID, FRACTURE, SHOT, CEMENT SQUEEZE RECORD

Amount and kind of material used	Depth interval treated
treated w/500 gallons, I.N.S. max. press. 1400#, broke & treated 1/2 bbl., per min. @ 700#, 3 min, on vaccum 85.5 bbls., total load, Treated w/3000 gallons SGA max. pressure 400#, rate of 2 bbls., per min., treated @ 1 bbl. per min., 375#, on vacc. in six min. TL 164 bbls.,	4541-4549
Date of first production 5-3-83	Producing method (flowing, pumping, gas lift, etc.) Pumping
Estimated Production -I.P. 135 bbls.	Gravity 37°
Disposition of gas (vented, used on lease or sold) sold	Perforations 4541 - 4549

OPERATOR Chief Drilling Co., Inc. LEASE NAME Terwilliger "B" #1 SEC. 7 TWP. 17S RGE. 28W

FILL IN WELL LOG AS REQUIRED: WELL NO. #1

Show all important zones of porosity and contents thereof; cored intervals, and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries.

SHOW GEOLOGICAL MARKERS, LOGS RUN, OR OTHER DESCRIPTIVE INFORMATION

FORMATION DESCRIPTION, CONTENTS, ETC.	TOP	BOTTOM	NAME	DEPTH
3-25-83 DST #7 4337 - 4426 Marmaton 30-30-60-30 Strong blow throughout, gas to surface in 60 min., Rec. 1600' clean gassy oil w/some muddy gassy oil, 311' heavy oil & gas cut mud, 38 gravity on top, 36.5 gravity on bottom, IBHP: 1120#, FBHP: 1080#, IFP: 100-540 FFP: 540-800				
3-26-83 DST #8 4430 - 4500 Pawnee Ft. Scott 30-30-60-45 weak blow bldg. to strong strong blow throughout, Rec. 60' gas in pipe, 120' slightly oil cut mud, 160' heavily oil cut mud, 20' muddy oil, severe plugging on final flow, IBHP: 800# FBHP: 850#, & building, IFP: 50-75, FFP: 120-120				
3-27-83 DST #9 4498 - 4526 upper cherokee 30-30-60-30 strong blow throughout, Rec. 2457' gas in pipe, 1591' free clean gassy oil, 300' heavily oil cut mud and muddy oil, gas to surface on final shut in, IBHP: 1150#, FBHP: 1120#, IFP: 50-380 FFP: 410-710				
3-28-83 DST# 10 4520 - 4554 lower cherokee & cherokee sand, 30-30-60-45, wk. intermitten blow bldg. to fair blow, Rec. 120' gas in pipe, 20' free clean oil, 40' heavy oil and gas cut mud, Perforation plugged, considered misrun. Drilled to 4605' and ran a log, Ran 116 jts. new 4 1/2" 10.5# casing, 4621', set @ 4603', 2' off bottom, 10' shoe joint, 8 centralizers @ 2195', 4190', 4266', 4314', 4407', 4460', 4522', cement control basket @ 2195', stage collar @ 2183', float @ 4593', cemented the bottom stage w/250 sx., 60-40 pos mix, salt saturated, Cemented top stage w/500 sx. 50-50 pos mix, 6% gel, did not circulate, plan to run temp. survey Completed @ 8:00 a.m.				

WELL LOG

Surface Sand & Clay	0	293
Sand & Clay	293	1206
Surface Shale	1206	2176
Anhydrite	2176	2205
Shale	2205	2984
Shale & Lime	2984	3428
Lime & Shale	3428	3889
Shale	3889	4258
Lime & Shale	4258	4426
Shale & Lime	4426	4500
Lime	4500	4605
RTD	4605	
LTD	4609	

# CHIEF DRILLING CO., Inc.

Drilling Contractors - Oil Producers

SUITE 905 CENTURY PLAZA

WICHITA, KANSAS 67202

V. RICHARD HOOVER  
PRESIDENT

(316) 262-3791

## DAILY COMPLETION REPORT

TERWILLIGER "B" #1 (#1979)  
NW NW SE Sec. 7-17S-28W  
LANE COUNTY, KANSAS

- 4-26-83 Moved cable tools in, rigged up, drilled out stage collar all but the ring
- 4-27-83 Cleaned out hole to 4578', ran Gamma Ray Log, Cement Bond Log & Collar Log, Perforated 4541 - 4549 2 shots per ft., D.P.'s. Top cement 3358' swabbed water to bottom, trace of oil,
- 4-28-83 Checked fill up, - 30' oil, treated w/500 gallons, I.N.S. max. pressure 1400#, broke and treated 1/2 bbl., per min. @ 700#, 3 min., on vaccum, 85.5 bbls., total load, Swabbing 78.12 bbls., total load 85 bbls.,  
1/2 hr. test 7 bbls., 10% water  
1st hr. test 12.80 bbls., 7% water  
2nd hr. test 10.44 bbls., no water  
3rd hr. test 9.28 bbls., no water  
4th hr. test 9.28 bbls., no water
- 4-29-83 Check overnight fill up, 3000' oil, 74 bbls., treated with 3000 gallons SGA max. pressure 400#, Rate of 2 bbls., per min. treated @ 1 bbl., per min., 375#. On vaccum in six min., Total load 164 bbls., Swabbing, Swab load back  
1/2 hr. test 21 bbls., no water  
2nd 1/2 hr. test 23 bbls., no water  
Swabbing 1300' off bottom
- 4-30-83 Shut down
- 5-01-83 Shut down
- 5-02-83 3178' fill up over weekend, All oil, Running rods & tubing Ran slotted mud anchor & seating nipple @ 2709', Ran 145 jts. new 2 3/8" tubing, 3 - 6' pups, @ 4572' set 6' gas anchor and 2 x 1 1/2 x 12 T.H.D. pump, ran 180 3/4" rods 2-6' ponys - 16' polish rod and 7' liner,
- 5-03-83 Setting tank battery 3 200 Bbl. stock tanks, fiberglass 10 x 15 gunnbarrel, 1 200 bbl. fiberglass water tank
- 5-04-83 Hooked up well head, 3100' lead line, hooked up,
- 5-05-83 Set pumping unit.
- 5-06-83 Prod. 140 bbl. oil in 20 hrs.
- 5-12-83 24 Hr. pump test 135 bbls. oil, 5% water

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Drilling Contractors - Oil Producers

SUITE 905 CENTURY PLAZA

WICHITA, KANSAS 67202

V. RICHARD HOOVER  
PRESIDENT

PAGE TWO

(316) 262-3791

## DAILY DRILLING REPORT

RIG #2

Terwilliger "B" #1 (#1979)  
NW NW SE 7-17S-28W  
Lane County, Kansas

### FORMATION TOPS:

Anhydrite	2176	+	612
Base Anhyd.	2205	+	583
Heebner	3936	-	1148
Lansing	3975	-	1187
Stark	4228	-	1440
BKC	4308	-	1520
Marmaton	4327	-	1539
Pawnee	4420	-	1632
Ft. Scott	4474	-	1686
Cherokee	4498	-	1710
Mississippi	4573	-	1785
RTD.	4605	-	1817

- 3-25-83 DST #7 4337 - 4426 Marmaton 30-30-60-30  
Strong blow throughout, gas to surface  
in 60 min., Rec. 1600' clean gassy oil  
w/some muddy gassy oil, 311' heavy oil  
& gas cut mud, 38 gravity on top, 36.5  
gravity on bottom, IBHP: 1120#, FBHP:  
1080#, IFP: 100-540 FFP: 540-800
- 3-26-83 DST #8 4430 - 4500 Pawnee Ft. Scott  
30-30-60-45 weak blow bldg. to strong  
strong blow throughout, Rec. 60' gas  
in pipe, 120' slightly oil cut mud, 160'  
heavily oil cut mud, 20' muddy oil,  
severe plugging on final flow, IBHP: 800#  
FBHP: 850#, & building, IFP: 50-75, FFP:  
120-120
- 3-27-83 DST #9 4498 - 4526 upper cherokee 30-30-  
60-30 strong blow throughout, Rec. 2457'  
gas in pipe, 1591' free clean gassy oil,  
300' heavily oil cut mud and muddy oil,  
gas to surface on final shut in, IBHP:  
1150#, FBHP: 1120#, IFP: 50-380 FFP: 410-710
- 3-28-83 DST# 10 4520 - 4554 lower cherokee & cherokee  
sand, 30-30-60-45, wk. intermitten blow bldg.  
to fair blow, Rec. 120' gas in pipe, 20' free  
clean oil, 40' heavy oil and gas cut mud,  
Perforation plugged, considered misrun.  
Drilled to 4605' and ran a log, Ran 116 jts.  
new 4 1/2" 10.5# casing, 4621', set @ 4603',  
2' off bottom, 10' shoe joint, 8 centralizers  
@ 2195', 4190', 4266', 4314', 4407', 4460',  
4522', cement control basket @ 2195', stage
- 3-29-83 collar @ 2183', float @ 4593', cemented the  
bottom stage w/250 sx., 60-40 pos mix, salt  
saturated, Cemented top stage w/500 sx. 50-50  
pos mix, 6% gel, did not circulate, plan to  
run temp. survey Completed @ 8:00 a.m.

### ELECTRIC LOG TOPS:

Anhydr.	2176	+	612
B. Anhydr.	2205	+	583
Heebner	3937	-	1149
Lansing	3973	-	1185
Stark	4228	-	1440
BKC	4315	-	1527
Marmaton	4330	-	1542
Pawnee	4423	-	1635
Ft. Scott	4476	-	1688
Cherokee	4499	-	1711
Miss.	4573	-	1785
LTD.	4609	-	1821

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Drilling Contractors - Oil Producers

SUITE 905 CENTURY PLAZA

WICHITA, KANSAS 67202

V. RICHARD HOOVER  
PRESIDENT

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## DAILY DRILLING REPORT

RIG #2

Terwilliger "B" #1 (#1979)  
NW NW SE 7-17S-28W  
Lane County, Kansas

Elevation:  
2781 GR.  
2785 D.F.  
2788 K.B.

### FORMATION TOPS:

3-15-83	Moved in rigged up	Anhydrite	2176	+	612
3-16-83	Drilling on Rat hole	Base Anhydr.	2205	+	583
	Spudded in @ 10:15 ran 6 jts new	Heebner	3936	-	1148
	20#, 8 5/8", 281', set @ 290', cem.-	Lansing	3975	-	1187
	w/200 sx. 60-40 pos mix, 3% c.c., 2%	Stark	4228	-	1440
	gel, plug down @ 4:00 p.m.	BKC	4308	-	1520
3-17-83	Drilling @ 1360'	Marm.	4327	-	1539
3-18-83	Drilling @ 2497'	Pawnee	4420	-	1632
3-19-83	Drilling @ 3210'	Ft. Scott	4474	-	1686
3-20-83	Drilling @ 3583'	Cherokee	4498	-	1710
3-21-83	Drilling @ 4051'	Mississippi	4573	-	1785
3-22-83	DST #1 4114 - 4170 120 & 140 zone of	RTD	4605	-	1817
	Lansing 30-30-60-45 very weak blow				
	for 90 min., Rec. 40' gas in pipe,				
	40' slightly gas cut mud, IBHP: 70#				
	FBHP: 50#, FP: 50-50				
	DST#2 4164 - 4204 lansing 160 zone				
	30-30-60-45. very wk. blow for 90 min.,				
	Rec. 10' muddy water w/few oil spots				
	IBHP: 765#, FBHP: 690#, FP: 50-50				
3-23-83	DST#3 4200 - 4236 Lansing 180 zone				
	30-30-30-30 strong blow throughout				
	Rec. 680' gas in pipe, 280' muddy gassy				
	oil, 30' heavy oil cut mud, 180' muddy				
	water, IBHP: 975#, FBHP: 975#, FP: 50-				
	225 DST #4 4222 - 4258 Lansing 200 zone				
	30-30-30-30 strong blow throughout, Rec.				
	700' Gas in pipe, 200' gassy muddy oil				
	IBHP: 925# FBHP: 910#, FP: 50-50				
3-24-83	DST #5 Lansing 220 zone 4252 - 4310				
	30-30-60-30 strong blow throughout, Rec.				
	410' gas in pipe, 130' muddy gassy oil,				
	90' heavy oil cut mud, 90' slightly oil				
	cut mud, 270' muddy water, IBHP: 1160#,				
	FBHP: 1135#, FP: 50 - 300				
3-25-83	DST #6, (4296-4356) U. Marm. 30-30-60-30, 2380'				
	GIP, 770' clean oil, 40° gravity, 450' muddy				
	oil, IBHP: 950, FBHP: 760, FP: 50 - 490				

continued