

TYPE

AFFIDAVIT OF COMPLETION FORM

ACO-1 WELL HISTORY

State Geological Survey

Compt. _____

SIDE ONE

WICHITA BRANCH

(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 # 5208 EXPIRATION DATE 6/30/83
 OPERATOR Mobil Oil Corporation API NO. 15-189-20,617
 ADDRESS P. O. Box 5444 COUNTY Stevens
Denver, Colorado 80217 FIELD Panoma
 ** CONTACT PERSON C. J. Park, Prod. Acctg. Supv. PROD. FORMATION Council Grove
 PHONE 303/572-2696
 PURCHASER Northern Natural Gas Company LEASE Lightcap #3 Unit
 ADDRESS 2223 Dodge Street WELL NO. 4
Omaha, Nebraska 68102 WELL LOCATION _____
 DRILLING Earl F. Wakefield, Inc. 1980 Ft. from North Line and
 CONTRACTOR 300 West Douglas, Suite 500 1320 Ft. from West Line of
 ADDRESS Wichita, Kansas 67202 the NW/4 (Qtr.) SEC 2 TWP 33S RGE 36E (W).

PLUGGING _____
 CONTRACTOR _____
 ADDRESS _____

TOTAL DEPTH 3130' PBTD 3112'

SPUD DATE 12/09/82 DATE COMPLETED 1/3/83

ELEV: GR 3024' DF _____ KB 3032'

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

DOCKET NO. OF DISPOSAL OR REPRESSURING WELL BEING
 USED TO DISPOSE OF WATER FROM THIS LEASE CD-82,408-C
(C-13,821)

Amount of surface pipe set and cemented 620' 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

W.R. Ross, 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.

W.R. Ross

WELL IN WELL INFORMATION AS REQUIRED:

WELL NO. 4

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.				
Check if samples sent to Geological Survey				
Surface Sand - Clay	0	540	Stone Corral	1698
Red Bed	540	1050	Chase	2595
Shale	1050	1240	Winfield	2702
Sand	1240	1420	Council Grove	2942
Shale & Gyp	1420	1743		
Anhydrite	1743	1764		
Shale & Gyp	1764	1980		
Shale	1980	2265		
Shale & Lime	2265	2450		
Lime & Shale	2450	3130		
R.T.D.	3130			

Pump 129 bbls. acid + 86 bbls. gel water, dropping 108 ball sealers 2952/3035*
 balled off, pump 186 bbls. gel water + 1714 bbl. gel water 2/3# of
 20-40 sand/gal., flush w/100 bbls. gel water.

Date of first production	Producing method (flowing, pumping, gas lift, etc.)	Gravity
Estimated pipeline connection Pumping	Water %	Gas-oil ratio
Production -I.P.	bbls. MCF	bbls. CFPB
Disposition of gas (vented, used on lease or sold)	N/A 1/25/83	Perforations
Awaiting pipeline connection	2952/3035*	

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	Sacks	Type and percent additives
Surface	12 1/4"	8 5/8"	24#	620'	Class H	130	3% CaCl ₂ + 12% gel
					Class H	125	3% CaCl ₂
Production	7 7/8"	5 1/2"	14#	3130'*	Class H	500	65/35 pōz + 6% gel
					Class H	125	+ 1/4# cellophane
							8% salt + 2% D-46

LINER RECORD

PERFORATION RECORD

Top, ft.	Bottom, ft.	Sacks cement	Shots per ft.	Size & type	Depth interval
			2 shots/ft.		2952-2958
					2970-2974
					2976-2982
					2984-2988

TUBING RECORD

Size	Setting depth	Packer set at			
					2991-2993

ACID, FRACTURE, SHOT, CEMENT SQUEEZE RECORD

2991-2993

Amount and kind of material used

3016-3022
 Depth interval treated

2-33-36W

KANSAS DRILLER'S LOG

LEASE: LIGHTCAP #3 UNIT #4
OWNER: MOBIL OIL CORPORATION
API 15-189-20,617
SPUD: 12-09-82
COMP: 12-15-82

LOCATION: 1980' FNL & 1320' FWL, NW/4
SECTION 2-33S-36W
STEVENS COUNTY, KANSAS
CASING: 8 5/8" SET @ 620'
5 1/2" SET @ 3130'

Surface Sand - Clay	540
Red Bed	1050
Shale	1240
Sand	1420
Shale & Gyp	1743
Anhydrite	1764
Shale & Gyp	1980
Shale	2265
Shale & Lime	2450
Lime & Shale	3130
R.T.D.	3130

STATE OF KANSAS)
)
COUNTY OF SEDGWICK) ss.

I, William C. Wakefield, do hereby certify that this is a true and correct Driller's Log on the LIGHTCAP #3 UNIT #4, located 1980' FNL & 1320' FWL, NW/4 Section 2-33S-36W, Stevens County, Kansas.

EARL F. WAKEFIELD, INC.

By William C. Wakefield
William C. Wakefield

Subscribed and Sworn to before me this 27th Day of December, 1982.