RELEASED
Date: MAY 1 1987
FROM CONFIDENTIAL

4150187
KCC

S SIDE ONE

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 # 5428
Name Graves Drilling Co., Inc.
Address 910 Union Center
CONFIDENTIAL
City/State/Zip Wichita, KS 67202

Purchaser Koch Oil Company
Wichita, KS 67201

Operator Contact Person Karen L. Seiler
Phone 316-265-7233

Contractor: License # 5428
Name Graves Drilling Co., Inc.

Wellsite Geologist Scott Banks
Phone 316-267-0783

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

WELL HISTORY

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

12-26-85	1-07-85	1-30-86
Spud Date	Date Reached TD	Completion Date

4872'	4634'
Total Depth	PBTD

Amount of Surface Pipe Set and Cemented at 307' 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

API NO. 15- 007-22,112

County Barber

180' E of S/2 SE SE Sec 15 Twp 31S Rge 13 [ ] East [X] West

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

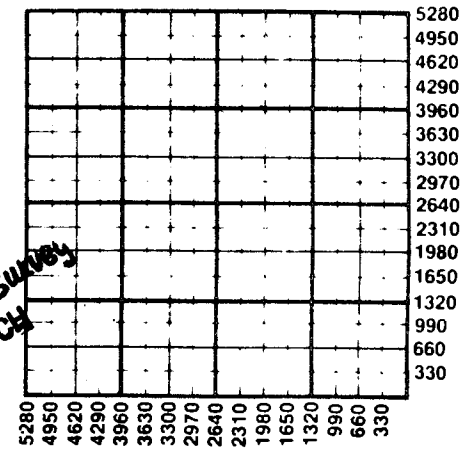
Lease Name Packard Well # 1

Field Name Nurse

Producing Formation Lansing

Elevation: Ground 1578 KB 1589

Section Plat



FEB 17 1986
State Geological Survey
WICHITA BRANCH

X 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 # T85-1086

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

[X] Surface Water 450 Ft North from Southeast Corner
(Stream, pond etc) 560 Ft West from Southeast Corner
Sec 15 Twp 31S Rge 13W [ ] East [ ] West

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

INSTRUCTIONS: This form shall be completed in duplicate and filed with the Kansas Corporation Commission, 200 Colorado Derby Building, Wichita, Kansas 67202, within 90 days after completion or recompletion of any well. Rule 82-3-130 and 82-3-107 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.

SIDE TWO

Operator Name Graves Drilling Co., Inc. Lease Name Packard Well # 1

Sec. 15 Twp. 31S Rge. 13 ☐ East ☒ West County Barber

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

Red Bed	0 - 307
Red Bed, Shale & Lime	307 - 1045
Shale & Lime	1045 - 3653
Douglass Sand	3653 - 3745
Shale & Lime	3745 - 3925
Lansing	3925 - 3960
Shale & Lime	3960 - 4037
Lansing	4037 - 4037
Shale & Lime	4037 - 4268
Miss, Viola	4268 - 4428
Viola	4428 - 4465
Simpson Sand	4465 - 4660
Arbuckle	4660 - 4872

Formation Description
☒ Log ☐ Sample

Name	Top	Bottom
Lansing	3686	(-2097)
Lansing I Zone	3910	(-2321)
Mississippi	4172	(-2583)
Kinderhook	4330	(-2741)
Viola	4412	(-2823)
Simpson Sand	4554	(-2965)
Arbuckle	4622	(-3033)
RTD	4872	(-3283)

DST's on attached sheet.

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"	23#	307'	60/40 Posmix	190	2% Gel, 3% CC
production	7 7/8"	5 1/2"	14#	4660'	60/40 Posmix	250	10% salt, 10# Gil. per sack, 3/4 of 1%

PERFORATION RECORD

Shots Per Foot	Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
2spf	4175-4190	Acidize w/5000 gal 15% FE acid Acidize w/1500 Gal 7 1/2% Gelled acid	-4280'
4 spf 2 shots	3911-13 2130'	500 gal 15% NE acid	3879'

TUBING RECORD Size 2" Set At 3968.44 Packer at 3992 & Bottom @ 3994' Liner Run ☒ Yes ☐ No

Allied 322

15-31-13W

15-31-13W

Packard No. 1

DST #1 - 3730-3756, OP 30, SI 30, OP 30, SI 30, Weak blow on 1st open, No blow on second open. Rec 10' drilling mud w/oil specks in tool. IFP 64-53, FFP 64-64. ISIP 75, FSIP 75.

DST #2 - 3910-3925. OP 45, SI 60, OP 60, SI 90. First Open 7.5 MCF, 2nd Open 10 minutes - too small to measure. 30 minutes - 6.3 MCF, 60 minutes 3.3 MCF. Rec 450' gassy oil gravity 30, 120' muddy oil, 25% mud, 75% oil, 360' water, 136,000 chloride. IFP 150-237, FFP 312-420. ISIP 1448, FSIP 1448.

DST #3 - 4006-4037. OP 45, SI 60, OP 60, SI 90. Strong blow thruout. GTS in 10" on second open. Rec 690' fluid, 150' O&GCM, 120' O&GCMW, 420' Water, IFP 118-193, FFP 258-355. ISIP 1491, FSIP 1480.

DST #4 - Straddle Test - 3978-3994. Weak blow thruout. Rec 150' muddy water w/ specks of oil. IFP 64-75, FFP 96-96. ISIP None, FSIP 1275.

DST #5 - 4400-4465. OP 45, SI 45, OP 60, SI 60. Rec 125' gassy, watery mud w/ oil specks. IFP 96-86, FFP 96-86, ISIP 193, FSIP 484.

DST #6 - 4165-4190. Hookwall. OP 45, SI 45, OP 60, SI 60, GTS in 14". Stab @ 68,000 CFG. Rec 300' fluid. 180' VHOCM - 20% oil, 60' OGCMW, 60' OGCM. IFP 105-73, FFP 126-105. ISIP 1529, FSIP 1540.

CONFIDENTIAL

Date of First Production	Producing Method				
2-3-86	☐ Flowing ☒ Pumping ☐ Gas Lift ☐ Other (explain)				
	Oil	Gas	Water	Gas-Oil Ratio	Gravity
Estimated Production Per 24 Hours	25 Bbls	- MCF	100 Bbls	CFPB	32

METHOD OF COMPLETION

Production Interval

Disposition of gas: ☐ Vented ☐ Sold ☐ Used on Lease

☐ Open Hole ☒ Perforation
☐ Other (Specify) .....

4175-4190

☒ Dually Completed
☐ Commingled

3911-13

This well will be dually completed, oil production from the Lansing and SWD into the Arbuckle

KANSAS GEOLOGICAL SURVEY
WICHITA BRANCH

JUN 02 1987

Received
STATE CORPORATION COMMISSION

FEB 12 1986

CONSERVATION DIVISION
Wichita, Kansas