

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
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
 New Well Re-Entry Workover
 Oil SVD Temp Abd
 Gas Inj Delayed Comp.
 Dry Other (Core, Water Supply etc.)

If OWN: old well info as follows:
Operator
Well Name
Comp. Date Old Total Depth

WELL HISTORY

Drilling Method:
 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 PBD

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. 15-007-22,112-00-00
County Barber
180' E. of S/2 SE SE 15 Twp 31S Rge 13 East West

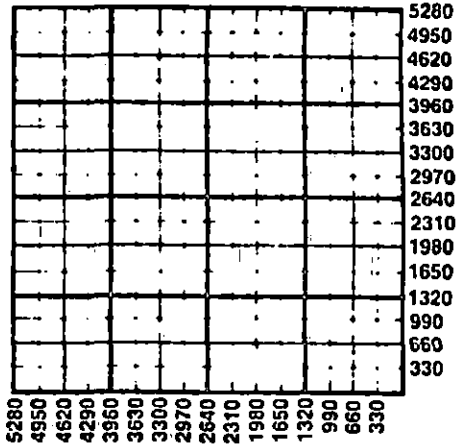
330 Ft North from Southeast Corner of Section
480 Ft West from Southeast Corner of Section
(Note: Locate well in section plat below)

Lease Name Packard Well # 1

Field Name Nurse

Producing Formation Lansing

Elevation: Ground 1578 KB 1589
Section Plat



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: T85-1086
Division of Water Resources Permit #
 Groundwater... Ft North from Southeast Corner (Well) ... Ft West from Southeast Corner of Sec Twp Rge East West
 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. #)

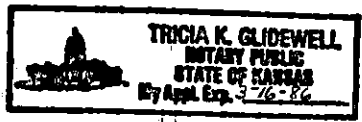
INSTRUCTIONS: This form shall be completed in duplicate and filed with the Kansas Corporation Commission, 200 Colorado Derby Building, Wichita, Kansas 67202, within 90 days after completion or recompletion of any well. Rule 82-3-130 and 82-3-107 apply.
Information on side two of this form will be held 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.
One copy of all wireline logs and drillers time log shall be attached with this form. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

All requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Signature [Signature]
Title Land Secretary Date 2-11-86

Subscribed and sworn to before me this 11th day of February 1986...
Notary Public Tricia K. Glidewell Tricia K. Glidewell

Date Commission Expires March 16, 1986



K.C.C. OFFICE USE ONLY
 Letter of Confidentiality Attached
 Wireline Log Received
 Drillers Timelog Received
Distribution
 KCC SVD/Rep NGPA
 KGS Plug Other (Specify)

Form ACO-1 (4-7-85)
STATE CORPORATION COMMISSION

FEB 12 1986

Sec 15 Twp 31 Rge 13W

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

Sec. 15 Twp. 31S Rge. 13 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

Formation Description
 Log Sample

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

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.

RELEASED
 MAY 28 1987
 FROM CONFIDENTIAL

CASING RECORD <input checked="" type="checkbox"/> New <input type="checkbox"/> 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				Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)			
Shots Per Foot	Specify Footage of Each Interval Perforated			Depth			
2 spf	4175-4190			Acidize w/5000 gal 15% FE acid			
4 spf	3911-13			Acidize w/1500 Gal 7 1/2% Gelled acid -4280			
2 shots	2130'			500 gal 15% NE acid			
TUBING RECORD							
Size 2"		Set At 3968'		Liner Run		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Date of First Production		Producing Method					
2-3-86		<input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (explain.....)					
Estimated Production Per 24 Hours		Oil	Gas	Water	Gas-Oil Ratio	Gravity	
25 Bbls		-	MCF	100 Bbls	CFPB	32	

METHOD OF COMPLETION Perforation
 Disposition of gas: Vented Open Hole Perforation
 Sold Other (Specify) 4175-4190
 Used on Lease Dually Completed 3911-13
 Conmingled

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

- 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

FEB 17 1986
State Geological Survey
WICHITA BRANCH

RELEASED

RECEIVED
STATE COMMISSION ON CONSERVATION
MAY 28 1987

FEB 19 1986
FROM CONFIDENTIAL

CONSERVATION DIVISION
Wichita, Kansas