

STATE CORPORATION COMMISSION OF KANSAS
OIL & GAS CONSERVATION DIVISION
WELL COMPLETION FORM
ACO-1 WELL HISTORY
DESCRIPTION OF WELL AND LEASE

Operator: License # 31137Name: Pennzoil Exp. & Prod. Co.Address P. O. Box 1462City/State/Zip Pampa, Tx 79066-1462Purchaser: KN GAS GATHERINGOperator Contact Person: J. P. YowellPhone (806) 665-1614Contractor Name: Abercrombie RTD, Inc.License: 30684Wellsite Geologist: N/A

Complete Type of Completion
☒ New Well ☐ Re-Entry ☐ Workover

☐ Oil ☐ SWD ☐ SLOW ☐ Temp. Abd.
☒ Gas ☐ ENHR ☐ SIGW
☐ Dry ☐ Other (Core, WSW, Expl., Cathodic, etc)

If Workover/Reentry: Old Well Info as follows:

Operator: N/A

Well Name: _____

Comp. Date _____ Old Total Depth _____

☐ Deepening ☐ Re-perf. ☐ Conv. to Inj/SWD
☐ Plug Back ☐ PBDT
☐ Commingled ☐ Docket No. _____
☐ Dual Completion ☐ Docket No. _____
☐ Other (SWD or Inj?) ☐ Docket No. _____

07/17/97 07/20/97 08/19/97
Spud Date Date Reached TD Completion Date

API NO. 15- 093-21,575County Kearny1250' FSL 1250' FWL Sec. 16 Twp. 22S Rge. 35 X ^EW1250' Feet from S (circle one) Line of Section1250' Feet from E (circle one) Line of SectionFootages Calculated from Nearest Outside Section Corner:
NE, SE, NW or SW (circle one)Lease Name Cramer Well # 2Field Name HugotonProducing Formation ChaseElevation: Ground 3101' KB 3106'Total Depth 2805' PBTD 2770'Amount of Surface Pipe Set and Cemented at 226.40 FeetMultiple Stage Cementing Collar Used? ☐ Yes ☒ No

If yes, show depth set _____ Feet

If Alternate II completion, cement circulated from 2805feet depth to SURFACE w/ 660 sx cmt.Drilling Fluid Management Plan Alt. 2, 2-20-98 U.C.
(Data must be collected from the Reserve Pit)Chloride content 49,000 ppm Fluid volume 580 bblsDewatering method used Evaporation

Location of fluid disposal if hauled offsite: _____

Operator Name _____

Lease Name _____ License No. _____

Quarter Sec. Twp. S Rng. E/W

County _____ Docket No. _____

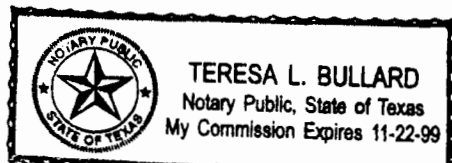
INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 130 S. Market - Room 2078, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rules 82-3-130, 82-3-106 and 82-3-107 apply. Information on 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 geologist well report shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. 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 J. P. YowellTitle Production Foreman Date 09/10/97Subscribed and sworn to before me this 12 day of September, 19 97.N Public Teresa L. BullardDate Commission Expires 11-22-99

K.C.C. OFFICE USE ONLY		
F	☒	Letter of Confidentiality Attached
C	☒	Wireline Log Received
C	☒	Geologist Report Received
Distribution		
☒ KCC	☐ SWD/Rep	☒ AGPA
☐ KGS	☐ Plug	☐ Other (Specify)

Form ACO-1 (7-91)



Operator Name Pennzoil Exploration & Prod. Lease Name Cramer Well # 2
 Sec. 16 Twp. 22S Rge. 35 ☐ East ☒ West County Kearny

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
 (Attach Additional Sheets.)
 Samples Sent to Geological Survey ☐ Yes ☒ No
 Cores Taken ☐ Yes ☒ No
 Electric Log Run ☒ Yes ☐ No
 (Submit Copy.)

☒ Log Formation (Top), Depth and Datums ☐ Sample
 Name Top Datum
 HERRINGTON 2570'
 PADDOCK 2585'
 KRIDER 2595'
 ODELL 2606'
 WINFIELD 2627'
 GAGE 2648'
 TOWANDA 2694'

List All E.Logs Run: Gamma Ray/CCL Log, Natural Gamma Ray Spectroscopy, Microlog Gamma Ray, Compensated Neutron Litho-Density-GR, Array Induction-SP Micro-Resistivity-GR

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#	226.40	60/40pcs	225	2%gel, 3%cc
Production	7 7/8"	4 1/2"	10.5#	2805	Class "C"	660	10% Salt

ADDITIONAL CEMENTING/SQUEEZE RECORD

Purpose:	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
☐ Perforate				
☐ Protect Casing				
☐ Plug Back TD				
☐ Plug Off Zone				

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used) Depth
4 SPF	2570'to74', 2595'to2602', 2633'to38'	2000Gal 7.5% HCL All
		59,000# 12/20 Brady Sand All
6 SPF	2575'to94', 2606'to32', 2648'to2705'	No Treatment

TUBING RECORD	Size	Set At	Packer At	Liner Run	☐ Yes ☒ No
	2 3/8"	2641'			
Date of First, Resumed Production, SWD or Inj.	Producing Method ☐ Flowing ☒ Pumping ☐ Gas Lift ☐ Other (Explain)				
08/19/97					
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
		150	10		

Disposition of Gas: METHOD OF COMPLETION

☐ Vented ☒ Sold ☐ Used on Lease
 (If vented, submit ACO-18.)

☐ Open Hole ☒ Perf. ☐ Dually Comp. ☐ Commingled
☐ Other (Specify) _____

Production Interval

2570'
2705'