

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 # 8458
Name Trans-Western Operating Co.
Address P.O. Box 276
Golden, Colorado 80402
City/State/Zip

Purchaser

Operator Contact Person D.J. Isern
Phone 303-279-2995

Contractor: License # 6033
Name Murfin Drilling Co.

Wellsite Geologist Russel Bak
Phone 303-457-0042

Designate Type of Completion

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

If ONWO: old well info as follows:

Operator
Well Name
Comp. Date Old Total Depth

WELL HISTORY

Drilling Method:

- Mud Rotary Air Rotary Cable

4-16-86 4-24-86 4-24-86
Spud Date Date Reached TD Completion Date

5300
Total Depth PBTD

8-5/8" set @ 386'
Amount of Surface Pipe Set and Cemented at...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. 15-199-20,082-00-00

County Wallace

SW SW SW Sec 28 Twp 15S Rge 42 East West

330 Ft North from Southeast Corner of Section
4950 Ft West from Southeast Corner of Section
(Note: Locate well in section plat below)

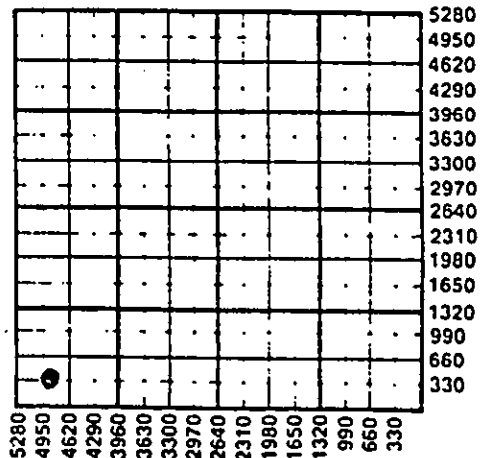
Leaso Name Krautkramer Well # 1-28

Field Name

Producing Formation

Elevation: Ground 3,870 KB 3,875

Section Plat



NOV 11-03-86 3 1000 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: Hauled
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...Ft North from Southeast Corner (Stream, pond etc)...Ft West from Southeast Corner Sec Twp Rge 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 H.W. Stach

Title Consultant Date 10-28-86

Subscribed and sworn to before me this 29th day of October 1986

Notary Public Kathleen H. Koch

Date Commission Expires October 25, 1990

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

Operator Name Trans-Western Operating Co. Lease Name Krautkramer Well # 1-28

Soc. 28 Twp. 15S Rge. 42 East West County Wallace

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

Name	Top	Bottom
Dakota	1,447	
Salt	2,250	
Stone Corral	2,756	
Red Eagle	3,468	
Lansing	4,158	
Morrow Sh	5,040	
St. Genevieve	5,177	

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"	24	386	Lite-Comm	210	3% CC

Shots Per Foot	Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
.....
.....
.....

TUBING RECORD Size Set At Packer at Liner Run Yes No

Date of First Production Producing Method
 Flowing Pumping Gas Lift Other (explain).....

Estimated Production Per 24 Hours	Oil Bbls	Gas MCF	Water Bbls	Gas-Oil Ratio	Gravity

METHOD OF COMPLETION Production Interval

Disposition of gas: Vented Open Hole Perforation
 Sold Other (Specify)
 Used on Lease Dually Completed Commingled

Daily Drilling Reports

Trans-Western Krautkramer #1-28
 SWSWSW Sec 28, T15S, 42W
 Wallace County, Kansas
 Projected TD: 5300'
 Elevation 3875' KB (5' AGL)
 API# 15-199-20,082

- 4-17-86 · MIRU Murfin Rig 20 & spud 12½" surface hole @ 7:15 PM 4-16-86.
 Drilling @ 172'. Down 10½ hrs repairing draw-works
- 4-18-86 Depth 1560', cut 1388', drlg in sand & shale. Drlg 12½" hole to 386'
 & ran 9 jts (378.54') 8-5/8", 24# csg. Landed @ 386' & cmt by Allied
 w/100 sx lite + 110 sx common (210 sx total) w/3% CaCl₂. Plug down @
 1:15 PM 4-17-86. WOC 8 hrs & drld out w/Bit #1 7-7/8" HTC J2 retip.
 Lost circ 1 hr @ 1468'. Survey 1/8° @ 386', 1-1/8° @ 1100'.
- 4-19-86 Depth 2745', cut 1185', drlg in shale below salt. MW 9.4, Vis 28,
 Surveys: 1½° @ 1783', 1° @ 2326. Bit #1 out @ 1783', cut 1397' in
 10½ hrs. Bit #2 HTC J22 w/3-12's. Lost circ ½ hr @ 1764'.
- 4-20-86 Depth 3645', cut 900', drlg in lime & shale. MW 9.3, Vis 27. Stone
 Corral anhydrite 2762-86.
- 4-21-86 Depth 4135', cut 490', drlg in Heebner shale. MW 9.2, Vis 27, LCM 1#,
 Lost circ 3/4 hr @ 3846'. Down 4 hrs pump repair & LD 1 jt DP.
- 4-22-86 Depth 4665', cut 530', drlg in lime & shale below Marmaton. MW 8.9,
 vis 39, WL 14, LCM 2½#, lost circ ½ hr @ 4213' (upper Lansing).
 4 drlg breaks w/no shows at: 4314-4321, 4422-4440, 4525-32, 4560-4564.
 Tops: Stone Corral - 2761', Lansing - 4178', Marmaton - 4636'.
- 4-23-86 Depth 5020', cut 355', drlg in Atoka. MW 9.2, Vis 47, WL 14, Cl 9,000,
 LCM 2#.
- 4-24-86 Depth 5302'. Td in Mississippian. MW 9.2, Vis 56, WL 12, Cl 10,000,
 Circ & cond 1 hr, made 10 stand short trip. Circ 1 hr and strap
 OOH. Rigging up Great Guns WL to run primary logs.
- 4-25-86 Depth 5302'. Ran DIL FDC-CNL & Sonic logs. Plug in accord w/instructions
 from state inspector as follows:
- 30 sx - 278'
 - 100 sx - 1825' w/celloflake
 - 50 sx - 420'
- Mousehole-15 sx
 Rathole - 15 sx
- Plug and abandon @ 11 PM @ 4-24-86. Final Report.

WELL LOG

COMPANY Transwestern Operating Co.
 1228 15th Street, Suite 401
 Denver, Colorado

FARM Krautkramer NO. 1-28

SEC. 28 T. 15S R. 42W
 LOG. SW SW SW

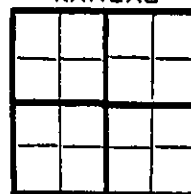
RID. NO. 20

TOTAL DEPTH 5300'

COMM. 04-16-86 **COMP.** 04-24-86

COUNTY Wallace
 KANSAS

CONTRACTOR Murfin Drilling Company
 250 N. Water, Suite 300
 Wichita, KS 67202



CASING

20 10

15 8

12 6

12 5

-5/8" set @ 386' w/100 sx Lite, 3% CC + 110 sx Common, 3% CC.

PRODUCTION

FIGURES INDICATE BOTTOM OF FORMATIONS

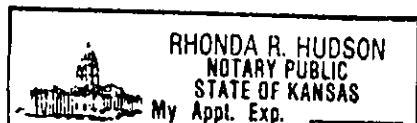
Clay & Sand	240'
Shale	725'
Shale & Sand	4570'
Shale & Lime (RTD)	5300'

NOV 3 1986

State of KANSAS
 County of SEDGWICK ss:

I, Robert A. Ramseyer, Jr. of the Murfin Drilling Company

upon oath state that the above and foregoing is a true and correct copy of the log of the Krautkramer 1-28 well.



Robert A. Ramseyer, Jr.
 Robert A. Ramseyer, Jr. Agent for Operator
 19 86

Subscribed and sworn to before me this 29th day of April

My Commission Expires: 11-18-87

Rhonda R. Hudson
 NOTARY PUBLIC
 Rhonda R. Hudson