

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 OXWO: 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 PBD

8-5/8" set @ 386'
Amount of Surface Pipe Set and Cemented at...foot
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set...feet
If alternate 2 completion, cement circulated
from...foot depth to...w/...SX cmt

API NO. 15-199-20,082
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)

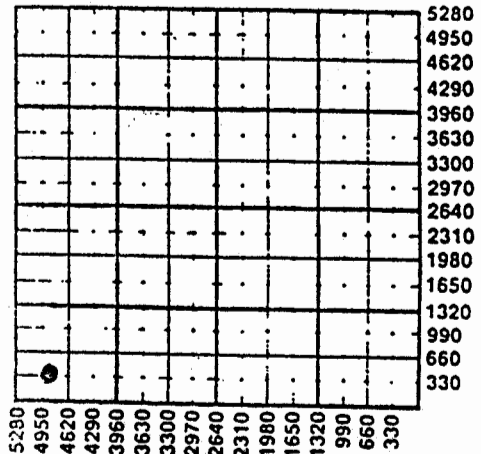
Lease Name Krautkramer Well # 1-28

Field Name

Producing Formation

Elevation: Ground 3,870 KB 3,875

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: Hauled
Division of Water Resources Permit #

Groundwater...Ft North from Southeast Corner (Well) ...Ft West from Southeast Corner of Soc Twp Rge East West

Surface Water...Ft North from Southeast Corner (Stream, pond etc)...Ft West from Southeast Corner Soc 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.

SIDE TWO

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 Now 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-Cem	210	3% CC

PERFORATION RECORD

Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used) Depth

Shots Per Foot	Specify Footage of Each Interval Perforated	Depth
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.....
.....
.....

TUBING RECORD

Size Set At Packer at Liner Run Yes No

28-15-42W

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 12 1/4" surface hole @ 7:15 PM 4-16-86. Drilling @ 172'. Down 10 1/2 hrs repairing draw-works
- 4-18-86 Depth 1560', cut 1388', drlg in sand & shale. Drlg 12 1/2" 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: 1 1/2° @ 1783', 1° @ 2326. Bit #1 out @ 1783', cut 1397' in 10 1/2 hrs. Bit #2 HTC J22 w/3-12's. Lost circ 1/2 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 2 1/2#, lost circ 1/4 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.

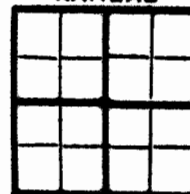
NOV 3 1986

WELL LOG

COMPANY Transwestern Operating Co.
 1228 15th Street, Suite 401
 Denver, Colorado
FARM Krautkramer **NO.** 1-28
RIS. NO. 20
TOTAL DEPTH 5300'
COMM. 04-16-86 **COMP.** 04-24-86
CONTRACTOR Murfin Drilling Company
 250 N. Water, Suite 300
 Wichita, KS 67202

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

COUNTY Wallace
 KANSAS



CASING
 20 10
 15 8 -5/8" set @ 386' w/100 sx Lite, 3% CC + 110 sx Common, 3% CC.
 12 6
 13 5

PRODUCTION

FIGURES INDICATE BOTTOM OF FORMATIONS

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