

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 Transwestern Operating Co.  
Address P. O. Box 276  
Golden, CO 80202  
City/State/Zip

Purchaser

Operator Contact Person Doug Isern  
Phone 303-279-2995

Contractor License # 6033  
Name Murfin Drilling Company

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 ONNO: old well info as follows:  
Operator NOV  
Well Name  
Comp. Date Old Total Depth

WELL HISTORY

Drilling Method:  
 Mud Rotary  Air Rotary  Cable  
8-25-86 8-31-86 8-31-86  
Spud Date Date Reached TD Completion Date  
5300'  
Total Depth PBTD  
8-5/8" csg set @ 384'  
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  
Cement Company Name  
Invoice #

API NO. 15-199-20,090-00-00  
County Wallace  
C W/2 SE SE 29 15S 42 East  
Sec. Twp. Rge. X West

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

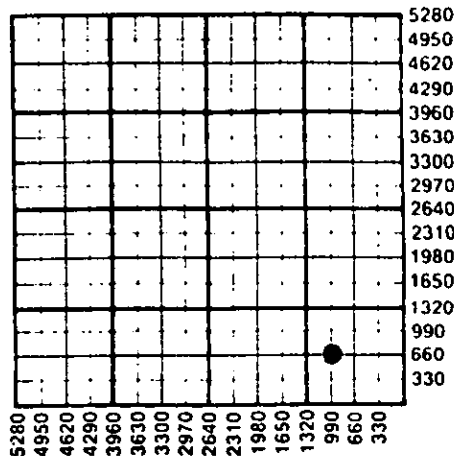
Lease Name Krautkramer Well # J-29A

Field Name

Producing Formation

Elevation: Ground 3,879' KB 3,884'

Section Plat



3 200  
11-03-86

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: 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 triplicate and filed with the Kansas Corporation Commission, 200 Colorado Derby Building, Wichita, Kansas 67202, within 120 days of the spud date of any well. Rule 82-3-130, 82-3-107 and 82-3-106 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. Wayne Stack  
Title Consultant Date 10-28-86

Subscribed and sworn to before me this 28th day of October 1986  
Notary Public Kathleen H. Koch  
Date Commission Expires 10-25-90

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)

Sec 19, Twp 15, Rge 42W

Operator Name Transwestern Operating Co. Lease Name Krautkramer Well # 1-29A

Sec. 29 Twp. 15S Rge. 42W  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	1,446	
Salt	2,265	
Stone Corral	2,761	
Red Eagle	3,421	
Lansing	4,160	
Morrow Sh	5,021	
St. Genevieve	5,178	

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 1/2"	8-5/8"	24	384	Lite-Cm	250	3% cc
PERFORATION RECORD				Acid, Fracture, Shot, Cement Squeeze Record			
Shots Per Foot	Specify Footage of Each Interval Perforated			(Amount and Kind of Material Used)			Depth
TUBING RECORD				Liner Run <input type="checkbox"/> Yes <input type="checkbox"/> No			
Date of First Production	Producing Method <input type="checkbox"/> Flowing <input 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		
	Bbls	MCF	Bbls	CFPB			

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 #1-29A  
 990' FEL, 660' FSL Sec 29, T15S, R42W  
 Wallace County, Kansas  
 Projected TD: 5,300'  
 Elevation: 3,884' KB (5' AGL)  
 API # 15-199-20,090.

- 8-26-86 MIRU Murfin Rig 20 & spud 12 $\frac{1}{2}$ " surface hole @ 2:45 PM 8-25-86. Depth 600'; drlg in shale. Ran 9 jts (377.81') new 8-5/8", 24# csg. Landed @ 384' & cmtd by Allied w/150 sx lite + 100 sx common (250 sx total) w/3% CaCl<sub>2</sub>. Plug down @ 9:15 PM, cmt circ @ surface. WOC 8 hrs. Drld shoe @ 5:15 AM w/bit#1 HICRI 7-7/8" w/3-12's. Surveys: 3/4° @ 157', 1° @ 277', & 1/2° @ 384'. WOB 15,000#, 80 RPM, 1,000 psi, 70 SPM.
- 8-27-86 Depth 2300', cut 1700'; drlg in Salt. MW 9.3, WOB 35,000#, 75 RPM, 1000 psi, 70 SPM. Bit #1 out @ 1965', cut 1581' in 11 hrs. Bit #2 HTC J22, 7-7/8" w/3-12's. Surveys: 1/8° @ 1201' & 3/4° @ 1965'. Lost circ 3/4 hrs @ 1654'. Down 2 hrs to replace drum chain in draw works.
- 8-28-86 Depth 3410', cut 1110' in 22-3/4 hrs, drlg in Neva lm. MW 9.4, WOB 35,000#, 75 RPM, 1,000 psi, 70 SPM. Surveys: 1-1/8° @ 2514', 1° @ 3106'. Anhydrite 2765-2790.
- 8-29-86 Depth 4010', cut 600' in 23-3/4 hrs. drlg in shale below Topeka. MW 9.3, WOB 35,000#, 75 RPM, 1000 psi & 64 SPM.
- 8-30-86 Depth 4630', cut 620' in 23 $\frac{1}{2}$  hrs; drlg in lower Lansing. MW 8.7, Vis 40, WL 13.6, WOB 40,000#, 75 RPM, 1000 psi, 64 SPM, lost circ 3/4 hr @ 4151'.
- 8-31-86 Depth 5160', cut 530' in 24 hrs; drlg in Morrow Lime @ 5160'. MW 9.0, Vis 44, WL 9, WOB 40,000#, 60 RPM, 800 psi, 54 SPM.
- 9-01-86 5300' TD, cut 140'; circ 1 $\frac{1}{2}$  hrs, made 10 stnd short trip, cir 1 $\frac{1}{2}$  hrs & TOH for logs. Ru Great Guns & ran DIL & Sonic 5300' to surface pipe @ 390', FDC CNL - 5300'-3300'. Spot 60/40 pozmix by Sun in accord with state instructions as follows:
- |                  |          |
|------------------|----------|
| 1st plug @ 2780' | w/25 sx  |
| 2nd plug @ 1780' | w/100 sx |
| 3rd plug @ 400'  | w/40 sx  |
| 4th plug @ 40'   | w/10 sx  |
| Rathole          | 15 sx    |
| Mousehole        | 10 sx    |

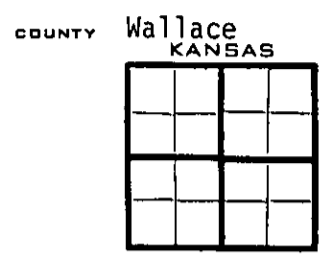
Plug and abandon @ 11:30 AM 9-1-86 by Sun.

15-199-20090-00-00

# WELL LOG

Transwestern Operating Co.  
 COMPANY P. O. Box 276  
 Golden, CO 80202  
 FARM KRAUTKRAMER NO. 1-29A  
 RID. NO. 20  
 TOTAL DEPTH 5300'  
 COMM. 8-25-86 COMP. 9-1-86  
 CONTRACTOR Murfin Drilling Company  
 250 N. Water, Suite 300  
 Wichita, KS 67202

SEC. 29 T. 15S R. 42W  
 LOC. C W/2 SE SE



CASING  
 20 10  
 15 8 -5/8" csg set @ 384' w/150 sx Lite +  
 12 6 100 sx Common, 3% cc.  
 13 5

ELEVATION  
 PRODUCTION

FIGURES INDICATE BOTTOM OF FORMATIONS

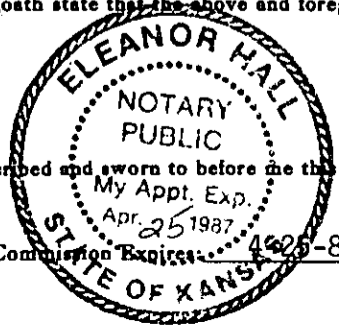
Clay & Sand	270'
Shale	600'
Shale & Sand	1965'
Shale	2300'
Shale & Sand	2855'
Shale	3410'
Shale & Lime	3815'
Shale	4010'
Shale & Lime (RTD)	5300'

NOV 3 1986

State of Kansas  
 County of Sedgwick } ss:

I, Rob Ramseyer 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 #1-29A well.



Rob Ramseyer  
 Rob Ramseyer, Agent for Operator

Subscribed and sworn to before me this 17th day of September 19 86

My Commission Expires 4-25-87

Eleanor Hall  
 Eleanor Hall NOTARY PUBLIC