

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 303-270-2995

Contractor: License # 6033
Name Murfin

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
1-6-86 1-12-86 1-14-86
Spud Date Date Reached TD Completion Date
5300
Total Depth PBTD

Amount of Surface Pipe Set and Cemented at 8-5/8" @ 474' 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. 15-199-20,075-0000

County Wallace

SE. NE. SE. Sec. 31. Twp. 15S. Rge. 42E
 East West

1650 Ft North from Southeast Corner of Section
330 Ft West from Southeast Corner of Section
(Note: Locate well in section plat below)

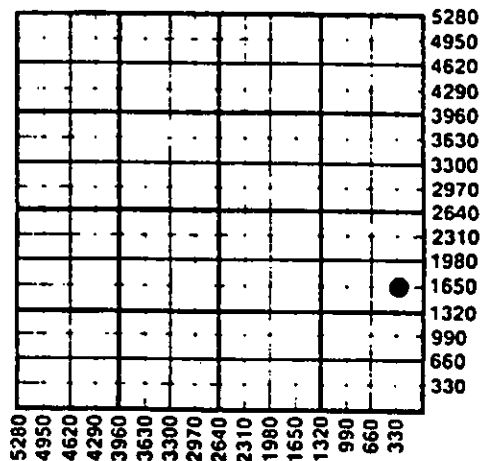
Lease Name Wehrman Well 3-31

Field Name

Producing Formation

Elevation: Ground 3,879 KB 3,884

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 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. Koch

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)

NOV 3 1986

11-03-86

SIDE TWO

Operator Name Trans-Western Operating Co. Lease Name Wehrman Well # 3-31

Sec. 31 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	1,442	
Salt	2,242	
Stone Corral	2,747	
Red Eagle	3,464	
Lansing	4,140	
Morrow Sh	5,020	
St. Genevieve	5,158	

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	474	Life-Cem	275	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 CFPB	Gravity

METHOD OF COMPLETION

Disposition of gas: Vented Open Hole Perforation
 Sold Other (Specify)

Used on Lease

Dually Completed

Production Interval

WELL LOG

15-199-20075-00-00

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

FARM Wehrman **NO.** 3-31

RIB. NO. 24

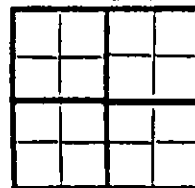
TOTAL DEPTH 5300'

DDMM. 01-06-86 **COMP.** 01-14-86

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

SEC. 31 **T.** 15S **R.** 42W
LOC. SE NE SE

COUNTY Wallace
 KANSAS



CASING

20 15 12 13	10 8 6 5	-5/8" set @ 474' w/175 sx Lite, 3% CC + 100 sx Common, 3% CC.
----------------------	-------------------	---

PRODUCTION

FIGURES INDICATE BOTTOM OF FORMATIONS

Sand & Clay	260'
Shale	474'
Shale & Sand	2743'
Anhydrite	2774'
Shale	3095'
Shale & Shells	3365'
Shale	4030'
Lime & Shale (RTD)	5300'

20
15
12
13

10
8 -5/8" set @ 474' w/175 sx Lite, 3% CC + 100. sx Common, 3% CC.
6
5
ELEVATION
15-199-20075-00-00
PRODUCTION

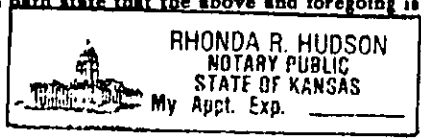
FIGURES INDICATE BOTTOM OF FORMATIONS

Sand & Clay	260'
Shale	474'
Shale & Sand	2743'
Anhydrite	2774'
Shale	3095'
Shale & Shells	3365'
Shale	4030'
Lime & Shale (RTD)	5300'

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 Wehrman #3-31 well.



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

Subscribed and sworn to before me this 28th day of January 19 86

My Commission Expires: 11-18-87

Rhonda R. Hudson
NOTARY PUBLIC
Rhonda R. Hudson

Daily Drilling Reports

Trans-Western - Wehrman #3-31
 SENESE 31, 15S, 42W
 Wallace County, Kansas
 APE 15-199-20075
 Elevation: 3884' : - KB, 5' AGL
 Projected TD: 5300'
TIGHT HOLE

- 1-07-86 MIRU Murfin Rig #24 & spud 12½" surface hole @ 4 PM 1-6-86. Drld to 474' & ran 11 jts (467.41') 8-5/8", 24#, J55 new csg. Landed @ 474' & cmt'd by Sun w/175 sx lite plus 100 sx common (275 sx total) w/3% CaCl₂. Cmt circ @ surface w/plug down @ 10:30 PM. WOC 6½ hrs & NU BOP. Drld out @ 5 AM w/bit #1 Reed 7-7/8" HM11 retip. Drlg @ 725' in shale w/native mud. Survey ½° @ 474'.
- 1-08-86 Depth 2170', cut 1,445', drlg in shale above salt. MW 8.9, Vis 32, LCM 3#, WOB 25,000#, RPM 65, pmp press 850 psi, SPM 67, Bit #1 out @ 1793', cut 1319' in 10-3/4 hrs. Bit #2 HTC 7-7/8" J22 w/3-12's. Survey 3/4° @ 1793'.
- 1-09-86 Depth 3365', cut 1195', drlg in limestone & shale. MW 9.4, Vis 31, LCM 2#, WOB 30,000#, RPM 70, pmp press 900 psi, SPM 66, Stone Corral Anhydrite 2743-2774'.
- 1-10-86 Depth 4030', cut 665', drlg in lime & shale. MW 9.4, Vis 36, LCM 3#, WOB 38,000#, RPM 65, pmp press 800 psi, SPM 64. Slight loss circ @ 4020' for 1½ hrs, heald OK
- 1-11-86 Depth 4610', cut 580', drlg in lower Lansing. MW 9.5, Vis 44, WL 16, CI 18,000, LCM 4#, WOB 38,000#, RPM 65, pmp press 900 psi, SPM 64, Sample Tops: Topeka 3960 (-71), Heebner 4111' (-222), Lansing (-290).
- 1-12-86 Depth 5040', cut 430', drlg in Morrow shale. MW 9.5, Vis 45, WL 11, CI 14,000, LCM 3#, WOB 40,000#, RPM 60, pmp press 700 psi, SPM 52. Sample Tops: Marmaton 4620 (-731'), Pawnee 4658 (-769'), Ft. Scott 4677 (-788), Cherokee (4720 (-831')), Atoka 4798 (-909') Morrow 5028 (-1139').
- 1-13-86 Depth 5304' TD In Mississippian Lime, cut 264'. Circ & cond 1½ hrs. Made 10 stnd short trip, circ & cond 1½ hrs & TOH for logs. RU Great Guns WL; running Dual Induction
- 1-14-86 Ran DIL from 5303'-474' & FDC-CNL from 5303'-3900' & 3300'-2700'. Survey @ TD was 1°. Spot 60/40 pozmix cmt plugs w/6% gel by Sun in accord with State instructions as follows:
 - 1st plug @ 2745' w/20 sx
 - 2nd plug @ 1840' w/100 sx
 - 3rd plug @ 500' w/40 sx
 - 4th plug @ 40' w/10 sx
 - Rathole w/15 sx
 - Mousehole w 10 sx
 - 195 sx

Plug & Abandon @ 12:30 AM 1-14-86 Final Report