

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 # 5171  
Name TXO Production Corp.  
Address 1800 Lincoln Center Bldg.  
City/State/Zip Denver, Colorado 80264

Purchaser: Koch Hydrocarbons  
Wichita, Kansas

Operator Contact Person Frank D. Tsuru  
Phone (303) 861-4246

Contractor: License # 6033  
Name Murfin Drlg. Co.

Wellsite Geologist  
Phone

Designate Type of Completion  
 New Well  Re-Entry  Workover

Oil  SWD  Temp Abd  
 Gas  Inj  Delayed Comp.  
 Dry  Other (Core, Water Supply etc.)

If O&W/O: old well info as follows:  
Operator  
Well Name  
Comp. Date Old Total Depth

WELL HISTORY

Drilling Method:  
 Mud Rotary  Air Rotary  Cable  
1/26/86 2/2/86 3/7/86  
Spud Date Date Reached TD Completion Date  
5260' 5227'  
Total Depth PBDT

Amount of Surface Pipe Set and Cemented at 385 feet  
Multiple Stage Cementing Collar Used?  Yes  No  
If yes, show depth set 1906 feet  
If alternate 2 completion, cement circulated  
from 1906 feet depth to surf. w/ 3.50 SX cmt

API NO. 15-071-20,414-00-00

County: Greeley

NE NW SE Soc. 1 Twp. 16S Rge. 43  East  West

2310 Ft North from Southeast Corner of Section  
1650 Ft West from Southeast Corner of Section  
(Note: Locate well in section plat below)

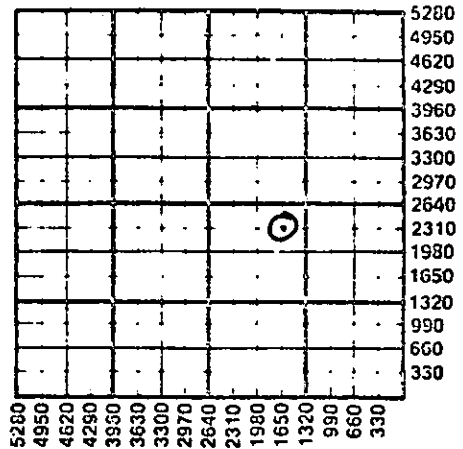
Lease Name: Edsall F Well # 14

Field Name: SW Stockholm

Producing Formation: Morrow

Elevation: Ground 3915 KB 3925

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:  
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 Frank D. Tsuru  
Frank D. Tsuru

Title: Drlg. & Prod. Engr. Date: 6/13/86

Subscribed and sworn to before me this 13 day of June 1986.

Notary Public: Nada J. Branson

Date Commission Expires: Dec 14, 1986

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

STATE CORPORATION COMMISSION

JUL - 9 1986

Form ACO-1 (7-84)

CONSERVATION DIVISION  
Wichita, Kansas

07-09-1986

Sec 1 Page 1/2

SIDE TWO

Operator Name TXO Production Corp. Lease Name Edsall F Well # 14

Sec. 1 Twp. 16S Rge. 43  East  West County Greeley

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
Stone Corral	2773	
Topeka	3928	
Lansing	4208	
Cherokee	4774	
Atoka	4899	
Morrow	5066	
Lower Morrow Sd	5137	

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 1/4"	8-5/8"	24#	385	Class C	200	3% CaCl <sub>2</sub>
Production	7-7/8"	4 1/2"	10.5#	5260	50-50poz	175	5% salt <sup>2</sup>

PERFORATION RECORD		Acid, Fracture, Shot, Cement Squeeze Record	
Shots Per Foot	Specify Footage of Each Interval Perforated	(Amount and Kind of Material Used)	Depth
2	5138-5166	Natural Completion	

TUBING RECORD	Size	Set At	Packer at	Liner Run	<input type="checkbox"/> Yes <input type="checkbox"/> No
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Date of First Production \_\_\_\_\_ Producing Method  Flowing  Pumping  Gas Lift  Other (explain.....)

	Oil	Gas	Water	Gas-Oil Ratio	Gravity
Estimated Production Per 24 Hours	65 Bbls	0 MCF	135 Bbls	CFPB	

METHOD OF COMPLETION

Production Interval

Disposition of gas:  Vented  Open hole  Perforation  
 Sold  Other (Specify) .....  
 used on lease  Quality Completed .....  
 Commingled .....

WELL NAME:	EDSALL "F" #14	PTD:	5300'
AREA:		ELEVATIONS:	
LOCATION:	Sec. 1-16S-R43W	CONTRACTOR:	Murfin
COUNTY:	Greeley	AFE NUMBER:	861095
STATE:	Kansas	LSE NUMBER:	
FOOTAGE:		TXO WI:	75%

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APCOT-FINADEL JOINT VENTURE

Weekly Mail

American Petrofina, Inc.

P.O. Box 2159

Dallas, Texas 75221

Phone No. (214) 750-2400

Attn: Houston Welch

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- 01/27/86 385' (385'), WOC. Sh. 8.4, 27. 1/4° @ 285'. MI & RU Murfin Rig #1. Spud 12-1/4" hole @ 2 PM 1/26/86. Ran 9 jts 8-5/8", 24#, K-55, ST&C csg (385'). Cmt'd w/ 100 sxs of lite w/ 3% CaCl<sub>2</sub>. Tail w/ 100 sxs of Neat w/ 3% CaCl<sub>2</sub>. DW: 9855. CW: 9855. DD 1.
- 01/28/86 2520' (2135'), drlg. Sh. 8.7, 29. 0° @ 1785'. WOC. TIH w/ bit #2. Drld ahead to 1785'. TFB #3. Drlg ahead. DW: 19,536. CW: 30,891. DD 2.
- 01/29/86 3630' (1110'), drlg. Sh. Native. DW: 10,168. CW: 41,059. DD 3.
- 01/30/86 4430' (800'), drlg. Sh & lm. 9.2, 30. DW: 8365. CW: 49,424. DD 4.
- 01/31/86 4975' (545'), drlg. Sh & lm. 9.3, 36. DW: 7671. CW: 55,595. DD 5.
- 02/01/86 5260' (285'), logging. Lm & sh. 9.1, 50, 7.8. Johannes Ss sample top @ 5142'. Samples were white to clear, med-VC Gr Ss w/ even to spotty bright fluor, slow mod milky white streaming cut w/ even bright yellow green ring. TD 7-7/8" hole @ 11:15 PM 1-31-86. Circ & cond. Short trip. Circ. TOOH. Started logging @ 7 AM 2-1-86. 3° @ 5260'. DW: 6845. CW: 62,440. DD 6.
- 02/02/86 5260' (0'), running 4 1/2" csg. Lm & sh. 9.1, 54, 7.8. RIH w/ GR-DLL. Hit bridge @ 2300'. Pushed bridge to 2700'. Could not go any deeper. POOH w/ logging tool. TIH to 5260'. TOOH. RU loggers. Started logging @ 12:30 PM 2-1-86. Fin logging @ 8:45 PM. TIH. Circ & cond. TOOH & LD DC & DP. LD BOP. Start running 4 1/2" csg. DW: 9109. CW: 71,549. DD 7.
- 02/03/86 5260' (0'), WOCU. Lm & sh. RIH w/ 4 1/2" cmt guide shoe (1.10'), 1 jt 4 1/2", 10.5#, K-55, ST&C, R-3, Cond A csg (29.60'), 1-4 1/2" insert float w/ fillup attachment. 80 jts - 4 1/2", 10.5# csg (3322.67'), 1-4 1/2" Pengo cmtg sleeve (3.10'), 47 jts 4 1/2" csg (1906.63'). Shoe landed @ 5260'. Float @ 5229.30'. Sleeve @ 1906.63'. Cmt'd w/ 175 sx 50-50 poz w/ 5% salt, 3/4% CFR-2, 1/4#/sx celloflake. Displ w/ 83.5 bbl 2% KCl. BP to 1500#. Held OK. Full returns. PD @ 11:30 AM 2-2-86. Set slips. RR @ 12:00 noon 2-2-86. Drop from report. WOCU. DW: 36,814. CW: 108,363. DD 8.
- 02/07/86 MI RU CU. RIH w/ 4 1/2" Pengo ST (3.10'); 1 - 2-3/8" X 1-25/32" SSN (1.10'); 59 jts 2-3/8", 4.7#, J-55 tbg (1930.31'). Opened cmt'g sleeve @ 1907'. RU Halco. Broke circ w/ 20 bbl formation wtr. Cmt'd w/ 350 sxs Halco lite w/ 1/4#/sx celloflake. Displ w/ 7 1/2 bbl form wtr. TIH to 1944'. Rev circ w/ 15 bbl 2% KCl. PU to 2000#. Held OK. RIH w/ 99 jts 2-3/8" tbg. Set SSN @ 5175'. RU & swab FL to 3500'. SDFD. DW: 25,050. CW: 133,413.
- 02/08/86 5227' PBTB, POOH w/ tbg & LD shifting tool. RU Welex. Run GR-CCL from 5226-4725'. LTD @ 5227'. Perf 4-1/2" csg w/ 3-1/8" csg gun from 5138-5166' (28') w/ 2 JSPF (58 holes). RD Welex. RIH w/ 1 jt 2-3/8", 4.7#, J-55, EUE, 8rd, R-2, C-A tbg w/ bull plug btm (26.96'), (1) 2-3/8" perf nipple (3.10'), (1) 2-3/8" x 1 25/32" SSN (1.10'), 3 jts 2-3/8" tbg (92.27'), (1) 2-3/8" x 4-1/2" Baker Model B AC w/ 35,000# shear (3.00'), 2 jts 2-3/8" C-B tbg (60.47) & 152 jts 2-3/8"

STATE CORPORATION COMMISSION

1111 - 9 1986

CONSERVATION DIVISION

WELL NAME:	EDSALL "F" #14	PTD:	5300'
AREA:		ELEVATIONS:	
LOCATION:	Sec. 1-16S-R43W	CONTRACTOR:	Murfin
COUNTY:	Greeley	AFE NUMBER:	861095
STATE:	Kansas	LSE NUMBER:	
FOOTAGE:		TXO WI:	75%

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02/08/86 C-A tbg (5002.61'). Land bull plug @ 5200'. Perf nipple @ 5173.04-5169.94'. SSN @ 5168.84'. AC @ 5076.57' w/ 15,000# tension. RU & run swab. IFL @ 3500'. Swab 4 runs. LFL to 4300'. Rec 58 bbls (4 BO & 54 BW). Last run was 10% oil. SDFN. DW: 3990. CW: 137,403.

02/09/86 5227' PBTB, RIH w/ 2" x 1-1/2" x 16' RWBC Axelson pump w/ ring valve, (1) 3/4" x 2' plain rod sub (C-A), (5) 3/4" plain rods (C-B), (102) 3/4" plain rods (C-A), (67) 3/4" scraped rods (C-B), (31) 3/4" scraped rods (C-A), (1) 1-1/4" x 22 polish rod (C-B) w/ 1-1/2" x 10' liner (C-B). Seat pump & hang rods 18" off btm @ 2 PM on 2/8/86. Drop from report while setting production equipment. DW: 9832. CW: 147,235.

02/13/86 Started pumping unit @ 11:50 AM. Well pumped up @ 1 PM 2/12/86 @ 11-1/2 SPM. DW: 0. CW: 147,235.

02/14/86 Well pumped 18 BO & 143 BW in 19-1/2 hrs @ 11 SPM. CW: 147,235.

02/15/86 Well pumped 7 BO & 148 BW in 24 hrs @ 11 SPM.

02/16/86 Well pumped 10 BO & 173 BW in 24 hrs @ 11 SPM.

02/17/86 Well pumped 10 BO & 170 BW in 24 hrs @ 11 SPM.

02/18/86 Well pumped 10 BO & 156 BW for 24 hrs @ 11 SPM.

02/19/86 Well pumped 14 BO & 78 BW in 24 hrs @ 11 SPM. Took wtr smpl. Chlorides were 44,500 ppm, Ca 2500 ppm, Mg 2390 ppm, Sulfates Moderate, Iron Light, Rw = .085 @ 62°F. FL was @ 3620'. DW: 0. CW: 147,235.

02/20/86 Well pumped 21 BO & 177 BW in 24 hrs @ 11 SPM. CW: 147,235.

02/21/86 Well pumped 32 BO & 205 BW in 24 hrs @ 13 SPM.

02/22/86 Well pumped 36 BO & 221 BW in 24 hrs @ 13 SPM. Changed SPM to 14 SPM. Shot FL @ 3608'.

02/23/86 Well pumped 56 BO & 151 BW in 23-1/2 hrs @ 13 SPM.

02/24/86 Well pumped 18 BO & 149 BW in 23 hrs @ 11 SPM.

02/25/86 Well pumped 28 BO & 153 BW in 24 hrs @ 10 SPM.

02/26/86 Well pumped 24 BO & 141 BW in 24 hrs @ 13 SPM.

02/27/86 Well pumped 28 BO & 161 BW in 24 hrs @ 13 SPM. FL @ 3520'.

02/28/86 Well pumped 23 BO & 102 BW in 24 hrs @ 13 SPM.

03/01/86 Well pumped 21 BO & 165 BW in 24 hrs @ 13 SPM.

03/02/86 Well pumped 42 BO & 154 BW in 23 hrs @ 10 SPM.

03/03/86 Well pumped 70 BO & 169 BW in 25 hrs @ 10 SPM.

03/04/86 Well pumped 51 BO & 157 BW in 23-1/2 hrs @ 12 SPM. FL was @ 3805'.

03/05/86 Well pumped 52 BO & 113 BW in 24 hrs @ 12 SPM. CW: 147,235.

03/06/86 Well pumped 69 BO & 139 BW in 24 hrs @ 12 SPM. CW: 147,235.

03/07/86 Well pumped 64 BO & 136 BW in 24 hrs @ 12 SPM. IP pumping Morrow oil well @ 65 BOPD and 135 BWPD @ 12 SPM. FINAL REPORT!!! CW: 232,235.