

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.
1660 Lincoln Street
City/State/Zip Denver, Colorado 80264

Purchaser None

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

Contractor: License # 6033
Name Murfin Drlg. Co., Inc.

Wellsite Geologist None
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: old well info as follows:
Operator
Well Name
Comp. Date ..Old Total Depth

WELL HISTORY

Drilling Method:
 Mud Rotary Air Rotary Cable

11/4/86 11/12/86
Spud Date Date Reached TD Completion Date
5300' 5262'
Total Depth PBTD

Amount of Surface Pipe Set and Cemented at 419 feet
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set 1829 feet
If alternate 2 completion, cement circulated
from 1829 feet depth to Surface w/ 350 SX cmt

API NO. 15-071-20,426-00-00

County Greeley

NE SE SW Sec. 1 Twp. 16S Rge. 43 East West

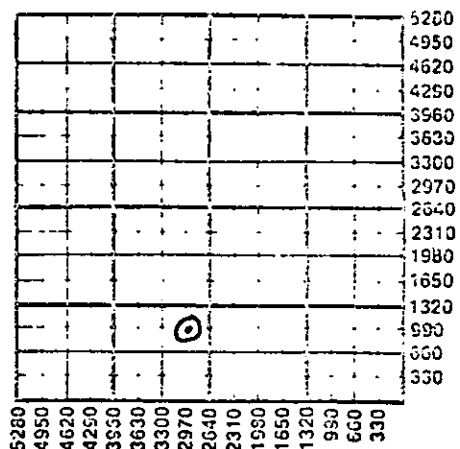
290' Ft North from Southeast Corner of Section
2970' Ft West from Southeast Corner of Section
(Note: Locate well in section grid below)

Lease Name Edsall "F" Well # 17

Field Name SW Stockholm

Producing Formation None

Elevation: Ground 3907 KB. 3917
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: TRUCKED
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
Title Drlg. & Production Engineer Date 3/4/87

Subscribed and sworn to before me this 4 day of March 1987.
Notary Public Nada J. Branson
Date Commission Expires 12/14/90

K.C.C. OFFICE USE ONLY
 Letter of Confidentiality Attached
 Wireline Log Received
 Drillers Timelog Received
Distribution
 KCC SWD/Rop NGPA
 KGS Plug Other
STATE CORPORATION COMMISSION
MAR 24 1987

Operator Name TXO Production Corp. Lease Name Edsall "F" Well # 17

Sec. 1 Twp. 16S Rge. 43 East West Country 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
Base Stone Corral	2794	
Topeka	3922	
Lansing	4243	
Marmaton	4633	
Ft. Scott	4706	
Cherokee	4764	
Morrow	5048	
L. Morrow Ls	5154	

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#	419'	60/40 poz	225	3% CaCl ₂
Production	7-7/8"	4 1/2"	10.5#	5300'	50/50 poz	200	5% Salt

PERFORATION RECORD		Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)		Depth
Shots Per Foot	Specify Footage of Each Interval Perforated			
2	5138-5144	Frac w/ 16.134 gallons 2% gelled KCl w/ 12.768# 20/40 sd		

TUBING RECORD	Size	Set At	Packer at	Liner Run	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
	2-3/8"	5118	5118		

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

Temporarily Abandoned

Estimated Production Per 24 hours	Oil	Gas	Water	Gas-Oil Ratio	Gravity
	0 Bbls	0 MCF	0 Bbls	0 CFPB	

METHOD OF COMPLETION

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

Fully Completed Commingled

Production Interval
 5138
 5144

15-071-20426-00-00

~~71544~~ HOLE

WELL NAME:	Edsall "F" #17	PTD:	5300'
AREA:	Stockholm	ELEVATIONS:	3917' KB, 3907' GL
LOCATION:	Sec. 1-T16S-R43W	CONTRACTOR:	Murfin
COUNTY:	Greeley	AFE NUMBER:	862627
STATE:	Kansas	LSE NUMBER:	78339
FOOTAGE:	2310' FWL, 990' FSL	TXO WI:	37.5%
TXO FIELD OFFICE:	Lamar	AFE\$:	173,000

Texaco Inc. P.O. Box 2100 Denver, CO 80201 Call Mary Psihountas @ 793-4281 WI 50%	Daily Call Weekly Mail
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Texaco Inc. Box 2420 Tulsa, OK 74102 Attn: N.E. Morton, District Manager	Weekly Mail
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APCOT-FINADEL JOINT VENTURE 1601 N.W. Expressway, Suite 900 Oklahoma City, OK 73118 Call Dina Duncan @ (405) 840-0671 WI 12.5% <i>Telexcopy to (405) 843-9012</i>	Daily Call Weekly Mail
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Kansas State Corp. Comm. 200 Colorado Derby Bldg. 202 W. 1st St. Wichita, Kansas 67202	Weekly Mail
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- 11/05/86 419' (419'), WOC. Sh. 8.7, 39. 1/4° @ 197'. 1/4° @ 449'. MI & RU Murfin Rig #23. Spud 12-1/4" hole @ 5:30 PM 11/4/86. TD 12-1/4" hole @ 1:00 AM 11/5/86. RIH w/ 10 jts 8-5/8" OD, 8rd, 24#, K-55, ST&C, R-3, C-A csg (408.88'). Set @ 419'. Cmtd w/ 225 sxs 60/40 poz w/ 3% CaCl₂. PD @ 2:30 AM 11/5/86. Full returns & cmt circ. DW: 8862. CW: 8862. DD 1.
- 11/06/86 1500' (1081'), drlg. Sd & sh. 8.9, 27. Misrun @ 942'. 1-1/4° @ 1096'. NU BOP. Test to 850# for 10 min. All held. Drld plug @ 7:45 PM 11/5/86. Lost fluid @ 1455' for 15 min. Lost approx 50 bbls of volume. Resumed drlg. DW: 7287. CW: 16,149. DD 2.
- 11/07/86 2785' (1285'), drlg. Sh, sd, & lm. 9, 31. 1/2° @ 1562'. 1/2° @ 1860'. 1-1/4° @ 2617'. Anhydrite top from 2667-2764'. Lost circ for 2-1/4 hrs between 1526-1972'. Resumed drlg. DW: 8800. CW: 24,469. DD 3.
- 11/08/86 3690' (905'), drlg. 9.4, 27. 1-1/8° @ 3100'. 1° @ 3642'. DW: 6404. CW: 30,873. DD 4.
- 11/09/86 4485' (795'), drlg. Lm & sh. 9.4, 27. 1/2° @ 4140'. LC @ 3920' (30 bbls); 3949' (50 bbls); & 4245' (50 bbls). DW: 6937. CW: 37,810. DD 5.
- 11/10/86 4812' (327'), POOH w/ fish. Lm & sh. 8.9, 40, 9.2, 10.5. Displ hole w/ premixed mud @ 4610'. Lost pump press. PU off btm. Replace pump head. Drl ahead. Pump press low. PU off btm & replace valve guide. Press still low. DC parted while hanging on brk. POOH. RIH w/ 7-5/8" x 6" OS. Latch fish. TOOH. DW: 2362. CW: 40,172. DD 6.
- 11/11/86 5100' (288'), drlg. Sd & sh. 9, 41, 9.5, 10. 3/4° @ 4870'. Finish TOOH. LD DC. Thaw out lines. TIH. Drl ahead. DW: 2128. CW: 42,300. DD 7.

STATE CORPORATION COMMISSION

MAR 29 1987
CONSERVATION DIVISION
Wichita, Kansas

WELL NAME:	Edsall "F" #17	PTD:	5300'
AREA:	Stockholm	ELEVATIONS:	3917' KB, 3907' GL
LOCATION:	Sec. 1-T16S-R43W	CONTRACTOR:	Murfin
COUNTY:	Greeley	AFE NUMBER:	862627
STATE:	Kansas	LSE NUMBER:	78339
FOOTAGE:	2310' FWL, 990' FSL	TXO WI:	37.5%
TXO FIELD OFFICE:	Lamar	AFE\$:	173,000

- 11/12/86 5300' (200'), logging. Lm & sh. 9, 51, 9, 10.5. 1° @ 5300'. TD 7-7/8" hole @ 4:15 PM. Circ & cond. TOOH. Began logging @ 11:45 PM. DW: 1600. CW: 43,900. DD 8.
- 11/13/86 5300' (0'), RD RT. 9.2, 48, 9.2. Fin logging @ 8:15 AM 11-12-86. TIH. Circ. TOOH. LD DP & DC. Run 4½" Dowell cmt guide shoe (1.10'), 1 jt 4½", 10.5#, K-55, ST&C csg (36.70'), insert float, 81 jts 4½" csg (3429.87'), Pengo cmt sleeve (3.10'), 43 jts 4½" csg (1843.18'). Shoe @ 5300'. Float @ 5262.20'. Cmt sleeve @ 1829.23'. Cmt'd w/ 200 sx 50-50 poz w/ 5% salt, .75% D-65, 1/4#/sx celloflake. Displaced w/ 83.9 bbls 3% KCl. BP to 1500#. PD @ 1:00 AM 11-13-86. Float held. Full returns. Set slips, cut off csg. RR @ 2:00 AM 11-13-86. Drop from report until completion begins. DW: 30,119. CW: 74,019. DD 9.
- 11/16/86 5262' PBDT, MI & RU CU. RIH w/ 4-1/2" Pengo shifting tool, SSN, & 59 jts 2-3/8", 4.7#, J-55, EUE Cond-B tbg. RU Dowell. Open cmt sleeve @ 1829'. Brk circ w/ 28 BW. Cmt w/ 350 sxs lite cmt w/ 1/4#/sx celloflake. Displ w/ 7 BW. Close sleeve. RIH w/ 1 jt tbg. Rev circ tbg w/ 12 BW. Press sleeve to 1500#. Held OK. TIH w/ 105 jts tbg to 5110'. RU & swab FL to 3500'. POOH w/ tbg. SDFD. DW: 17,365. CW: 91,384
- 11/17/86 SDFS.
- 11/18/86 5262' PBDT, RU Welex. RIH w/ GR-CCL. LTD @ 5260'. RIH w/ 3-1/8" perf gun. Perf 4-1/2" csg from 5138-5144' w/ 4 JSPF, 24 holes. POOH. RD Welex. PU & RIH w/ 4-1/2" PR-III pkr (6.50'), 2-3/8" SSN (1.10'), 164 jts 2-3/8" tbg (5104.74'). Set pkr @ 5118'. RIH w/ swab. IFL @ 3500'. Swabbed for 1 hr. LFL to SSN. Made 1 RPH for 3 hrs. Avg 25' per hr. Recovered 6-3/4 bbls H₂O w/ trace of oil & cont weak blow of gas. SWI. SDFD. DW: 3410. CW: 94,194
- 11/19/86 5260' PBDT, RU Halco. Load annulus w/ 39 bbls H₂O. Press csg to 2000#. Treat dn tbg w/ 1000 gals fm wtr. Flushed w/ 20 bbls fm wtr. Dropped 40 balls evenly throughout job. Balled off 23 bbls into job. MIR 4 BPM, AIR 3 BPM. MTP 5050#, ATP 4375#. ISDP 2000#, 5 min 200#, 10 min 0#. BLWTBR 44. RD Halco. RIH w/ swab. IFL @ 100'. Swabbed for 6-1/2 hrs. LFL to 5050'. Rec 46 bbls of total fluid (4 BO & 42 BW). RD tbg swab. RU Cable. RIH w/ tandem 24 hr press build-up bombs. Set @ 5138'. SWI. SDFD. Last cut 30% oil. DW: 2495. CW: 97,289.
- 11/20/86 5260' PBDT, SITP 235#. POOH w/ press bomb. Field reading showed BHP of 410#. RD Cable. Unseat pkr. RIH w/ 2 jts 2-3/8" tbg to make wiper run. POOH w/ 2 jts tbg. Set pkr @ 5118'. RU Dowell. Load csg w/ 17 BW. PT csg to 1950#. Frac dn tbg w/ 16,134 gals 2% gelled KCl wtr & 12,768 20/40 mesh sd. Flushed w/ 20 bbls 2% KCl as follows: Pumped 5000 gal pad, 3000 gal 1/2 ppg, 3000 gal 1 ppg, 4000 gal 1-1/2 ppg, 1134 gal 2 ppg. Went to flush due to press increase. ISDP 1200#, 5 min 500#, 10 min 340#, 15 min 250#. MIR 12 BPD, AIR 12 BPM. MTP 5150#, ATP 4360#. BLWTBR 404. SWI for 2-1/2 hrs. RIH w/ swab. IFL @ 100'. Swabbed for 1-1/2 hrs. LFL to 4400'. Rec 31 bbls load wtr. Started getting sd. SWI. SDFD. 375 BLWTBR. DW: 10,940. CW: 108,229.
- 11/21/86 5260' PBDT, SITP 0#. RIH w/ tbg swab. IFL @ 4400'. Swabbed for 3 hrs. LFL to SSN. RIH w/ sinker bars. Tag sd @ 5200'. Cont swabbing for 6 hrs. FL started increasing slightly. WFL @ 4975' making 2 RPH. Rec a total of 17 bbls in 9 hrs w/ trace of oil. SWI. SDFD. No sd in swab runs. Slight gas blow in front of swab only. DW: 1330. CW: 109,559.

(15-071-20426-00-00)

WELL NAME:	Edsall "F" #17	PTD:	5300'
AREA:	Stockholm	ELEVATIONS:	3917' KB, 3907' GL
LOCATION:	Sec. 1-T16S-R43W	CONTRACTOR:	Murfin
COUNTY:	Greeley	AFE NUMBER:	862627
STATE:	Kansas	LSE NUMBER:	78339
FOOTAGE:	2310' FWL, 990' FSL	TXO WI:	37.5%
TXO FIELD OFFICE:	Lamar	AFE\$:	173,000

11/22/96 5260' PBTB, SITP 225#. RIH w/ swab. IFL @ 4700'. Swab for 9 hrs. Rec 11 bbls total fluid w/ trace of oil & cont slight blow of gas. Last 8 hrs made 2 RPH. WFL @ 4975'. BLWTBR 347. DW: 1330. CW: 110,889.

11/23/96 5260' PBTB, SITP 385#. RIH w/ swab. IFL @ 4500'. Swab for 9 hrs. LFL to 4975'. Rec 12 BW, trace of oil. LWOTTON. SDFD. BLWTBR 335. DW: 3230. CW: 112,219.

11/24/96 SDFS.

11/25/86 Tbg had a very weak blow. RIH w/ swab. IFL @ 4200'. Swabbed for 9 hrs. LFL to 4975'. Rec 13 bbls wtr for last 7 hrs. Made 2 RPH. Oil inc from trace to 30% in last 3 hrs. LWOTTON. SDFD. 322 BLWTBR. DW: 1330. CW: 113,549.

11/26/86 Very slight blow on tbg. RIH w/ swab. IFL @ 4200'. Swab for 5 hrs. LFL to 4975'. Rec 8 bbls total fluid (4 BW & 4 BO). Last oil cut 50% & increasing. SWI. RR @ 12:30 PM 11/25/86. Unable to RD due to high winds. Drop from report until further evaluation. DW: 1130. CW: 114,679.

01/06/87 5260' PBTB, MI & RU WSU. RIH w/ swab. IFL @ 4200'. Swabbed for 9 hrs. LFL to SSN in 1 hr. Made 1 RPH for last 6 hrs. Rec a total of 7-3/4 bbls fluid. 26% oil last oil cut. Had slight cont blow of gas on tbg. LWOTTON. SDFD. DW: 1950. CW: 116,629.

01/07/87 RIH w/ swab. IFL @ 4800'. Swabbed for 4 hrs. LFL to 5050'. Making 1 RPH. Rec 1-3/4 bbls total fluid (1-1/2 BW & 1/4 BO). Last oil cut 23%. Slight cont blow of gas on tbg. LWOTTON. SDFD.

01/08/87 RIH w/ swab. IFL @ 4500'. Swab for 2 hrs. LFL to 5050'. Rec 2-1/4 bbls total (1-3/4 BW & 1/2 BO). Last oil cut 21%. SWI. RR @ 9:30 AM 1/7/87. Drop from report for further evaluation. DW: 800. CW: 118,279.

STATE CORPORATION COMMISSION

MAR 24 1987

CONSERVATION DIVISION
Wichita, Kansas