

TIGHT HOLE

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, Colo. 80264

Purchaser The Permian Corp.
Tulsa, Oklahoma

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

Contractor: License # 6033
Name Murfin Drlg. Co.

Wellsite Geologist Richard Bacon
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 OWMO: old well info as follows:
Operator
Well Name
Comp. Date Old Total Depth

WELL HISTORY

Drilling Method:
 Mud Rotary Air Rotary Cable
11-23-85 12-1-85 12-23-85
Spud Date Date Reached TD Completion Date
5260 5197
Total Depth PBTD

Amount of Surface Pipe Set and Cemented at 389 feet
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set 1985 feet
If alternate 2 completion, cement circulated from 1985 feet depth to surface 350 SX cmt

SIDE ONE

TIGHT HOLE

API NO. 15-071-20,406-00-00

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

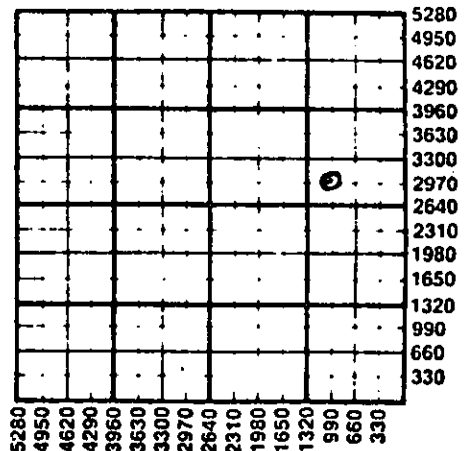
2970 Ft North from Southeast Corner of Section
990 Ft West from Southeast Corner of Section
(Note: Locate well in section plat below)

Lease Name Edsall "F" Well # 10

Field Name SW Stockholm

Producing Formation None

Elevation: Ground 3888 KB 3898
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
Title Drlg. & Prod. Engineer Date 2-20-86

Subscribed and sworn to before me this 20 day of February 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 Time Log Received

Distribution
 KOC SWD/Rep NGPA
 KGS Plug Other (Specify)

RECEIVED

STATE CORPORATION COMMISSION ACO-1 (7-84)

FEB 24 1986
02-24-1986
CONSERVATION DIVISION

Sec. 1 Twp. 16S Rge. 43 W

SIDE TWO

Operator Name TXO Production Corp. Lease Name Edsall "F" Well # 10

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	2750	
Foraker	3552	
Topeka	3902	
Heebner	4122	
Lansing	4182	
Marmaton	4610	
Ft. Scott	4682	
Cherokee	4736	
Atoka	4860	
Morrow	5023	
Johannes Sand	5100	
L. Morrow Limestone	5132	
Mississippian	5170	

RELEASED

APR 17 1987

FROM CONFIDENTIAL

CASING RECORD <input 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#	389'	Class "C"	200	3% CaCl ₂
Production	7-7/8"	4 1/2"	10.5#	5240'	50-50 poz	175	5% salt

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	5106'-5110'	Natural Completion	

TUBING RECORD	Size	Set At	Packer at	Liner Run	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
	2-3/8"	5177'	None		

Date of First Production 12-23-85 Producing Method Flowing Pumping Gas Lift Other (explain.....)

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

METHOD OF COMPLETION

Production Interval

Disposition of gas: Vented Oper Hole Perforation
 Sold Other (Specify) 5106'-5110'
 used on lease
 Dually Completed
 Commingled

WELL NAME: Edsall "F" #10
AREA: S.W. Stockholm
LOCATION: Sec. 1-T16S-R43W
COUNTY: Greeley
STATE: Kansas
FOOTAGE: 2970' FSL & 990' FEL

PTD: 5300'
ELEVATIONS: 3900' KB & 3890' GL
CONTRACTOR: Murfin
AFE NUMBER: 860314
LSE NUMBER: 77041
TXO WI:

APCOT FINADEL JOINT VENTURE
American Petrofina, Inc.
P. O. Box 2159
Dallas, Texas 75221
Attn: Houston Welch

Weekly Mail

Texaco, Inc.
P.O. Box 2100
Denver, CO 80201
Attn: M.O. Glerup
Phone No. 793-4281
Call Jodie Massie w/reports
Telecopy No. 793-4063
if busy call 793-4394

Daily Call
Weekly Mail

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Texaco, Inc.
P.O. Box 1650
Tulsa, OK 74102
Attn: N.E. Morton

APR 17 1987

FEB 25 1986
FROM CONFIDENTIAL

- 11/24/85 390' (390'), WOC. Sh & sd. 9.1, 35. 1/4° @ 390'. MI & RU Murfin Rig #21. Spudded 12-1/4" hole @ 4:45 PM-11/23/85. Finish 12-1/4" hole @ 8:45 PM. Ran 9 jts, 8-5/8", 24#, K-55, ST&C csg (389'). Cmtd w/ 100 sxs of Halco lite w/ 3% CaCl₂. PD @ 11 PM. WOC. DW: 9832. CW: 9832. DD 1.
- 11/25/85 2010' (1620'), drlg. Sh. Native. 1° @ 1615'. NU & test BOP to 1000#. Held OK. Drld plug @ 11 AM 11/24/85. DW: 15,176. CW: 25,008. DD 2.
- 11/26/85 3300' (1290'), drlg. Sh. Native. DW; 12,281. CW: 37,289. DD 3.
- 11/27/85 4025' (725'), drlg. Sh & lm. Native. DW: 6883. CW: 44,172. DD 4.
- 11/28/85 4395' (370'), WO junk basket & magnet. Sh & lm. Native. 3/4° @ 4395'. Drld to 4395'. TOOH w/ bit #3. Left one cone in the hole. DW: 4588. CW: 4395. DD 5.
- 11/29/85 4585' (190'), bit trip. Sh & lm. Native. Made 2 trips w/ finger basket w/ no recovery. TIH w/ bit #4. Drld from 4395-4585'. Started TOOH w/ bit #4. DW: 4404. CW: 53,164. DD 6.
- 11/30/85 4900' (0'), drlg. Sh & lm. 9.2, 36. Finished TOOH w/ bit #4. TIH w/ bit #5. Drlg ahead. DW: 5736. CW: 58,900. DD 7.
- 12/01/85 5240' (340'), circ for logs. Lm & sh. 9.2, 53, 8, 11.5. Rev drlg brks from 5100-5120' 3-4-3 MPF & 5122-5132' 2-4-3 MPF. Smpls were SS w/ C-VCGR, light oil stain, trace of even bright yellow fluor, slow moderate brt milky yellow streaming cut. TD 7-7/8" hole @ 2:15 AM 12/1/85. Circ & cond hole. ST. Circ. Started TOOH. DW: 5519. CW: 64,419. DD 8.
- 12/02/85 5240' (0'), ND BOP. Lm & sh. 2-1/2° @ 5240'. Finished TOOH. RU Gearhart. Started logging @ 10:45 AM 12/1/85. Finished logging @ 4:30 PM 12/01/85. TIH w/ bit. TOOH & LD DP & DC. DW: 9430. CW: 73,849. DD 9.

WELL NAME:	Edsall "F" #10	PTD:	5300'
AREA:	S.W. Stockholm	ELEVATIONS:	3900' KB & 3890' GL
LOCATION:	Sec. 1-T16S-R43W	CONTRACTOR:	Murfin
COUNTY:	Greeley	AFE NUMBER:	860314
STATE:	Kansas	LSE NUMBER:	77041
FOOTAGE:	2970' FSL & 990' FEL	TXO WI:	CONFIDENTIAL

- 12/03/85 5240' (0'), RD & MO RT. Mississippian. Finished ND BOP. NU csg crew. RIH w/ 4-1/2" Dowell cmt guide shoe (1.10'), 1 jt 4-1/2" OD, 8rd, 10.5#, K-55, ST&C, R-3, C-A csg (36.13'), 4-1/2" insert float w/ fillup attachment, 77 jts 4-1/2" csg as above (3213.49'), 4-1/2" Pengo sliding sleeve cmt stage tool (3.10'), 48 jts 4-1/2" csg as above (1994.63'). Shoe @ 5240'. Float @ 5202.77'. Sleeve @ 1985.28'. Cmt'd w/ 175 sxs 50/50 poz mix w/ 5% salt, 3/4% D-65, 1/4#/sx celloflake. BP to 1500#. Float held, had full returns. PD @ 11:45 PM 12/2/85. RR @ 12:45 PM 12/2/85. Drop from report until completion begins. DW: 35,995. CW: 109,844. DD 10.
- 12/05/85 MI & RU CT. RIH w/ 4-1/2" Pengo shifting tool (4.10'), 2-3/8" SSN (1.10'), 61 jts 2-3/8", 4.7#, J-55, EUE, 8rd tbg (2006.04'). Opened sleeve & brk circ w/ 38 bbls wtr. Mix & pump 350 sxs lite w/ 1/4#/sx celloflake displ w/ 7-1/2 bls wtr. Closed sleeve. Lower tbg to 2010'. Reverse circ w/ 20 bbls 2% KCL. PT to 1000#. RIH w/ 97 jts tbg (3188.34'). Tag btm @ 5198'. LD 1 jt tbg. Hang tbg @ 5170'. RU & swab FL to 2500'. SDFD. DW: 28,187. CW: 138,031.
- 12/07/85 5197' PBTD, finished swabbing FL to 4000'. POOH & LD ST. RU McCullough. Ran GR-CCL from 5193' to 4200'. LTD 5197'. Perf 4-1/2" csg w/ 3-1/8" csg gun from 5106' to 5110' & 5117' to 5125' 2 JSPF (28 holes). RD McCullough. RIH w/ Pengo PR III pkr (6.10'), 2-3/8" SSN (1.10'), & 154 jts of 2-3/8" tbg (5063.56'). Set pkr @ 5075'. Ran swab. IFL @ 2900'. Swab for 4 hrs. LFL to 3700'. Rec 67 bbls of heavy gas cut oil. SWI. SDFD. DW: 6097. CW: 144,128.
- 12/08/85 5197' PBTD, SITP 100#. Ran swab. IFL @ 2800'. Made 1 run. Rec 9 bbls of heavy gas cut oil. Rel pkr. POOH & LD pkr. RIH w/ 1 jt, 2-3/8", 4.7#, J-55, EUE, 8rd, C-A, R-2 tbg w/ bull plug btm (33.60'), 2-3/8" perf tbg sub (3.10'), 2-3/8" SSN (1.10'), 3 jts 2-3/8" tbg (98.77'), Baker Mod B TAC w/ 30,000# shear (3.10'), 153 jts 2-3/8" tbg (5029.75'). Btm of mud anchor landed @ 5177'. Perf nipple @ 5143.40'-5140.30'. SSN @ 5139.20'. TAC @ 5037.33' w/ 18,000# strain. RIH w/ 2" x 1-1/2" x 20' RWBC O'Bannon pump w/ 2 stager & 25' gas anchor, (1) 3/4" x 2' plain pony rod, (138) 3/4" x 25' plain rods, (65) 3/4" x 25' scraped rods, (1) 3/4" x 8' plain rod, (1) 3/4" x 6' plain pony rod, (1) 3/4" x 4' plain pony rod, 1-3/4"-2' plain pony rod. SDFD. DW: 3120. CW: 147,248.
- 12/09/85 SDFS.
- 12/10/85 RIH w/ 1-1/4" x 22' polished rod w/ 12' liner, seat pump, & clamp off. RR @ 10:30 AM 12/09/85. Drop from report until production facilities are set. DW: 1210. CW: 148,458.
- 12/13/85 Finished setting C-228D-256-86 American pumping unit. Started unit @ 1 PM 12/12/85 @ 10 SPM 86" SL.
- 12/14/85 Pumped 276 BO & 0 BW in 23-1/2 hrs @ 10-1/2 SPM 86" SL.
- 12/15/85 Pumped 38 BO & 0 BW in 4 hrs, no storage.
- 12/16/85 SI. No storage.
- 12/17/85 Started unit again @ 3:30 PM 12/16/85. Will have gauge tomorrow.
- 12/18/85 Pumped 109 BO & 0 BW in 19-1/2 hrs.
- 12/19/85 Pumped 144 BO & 0 BW in 24-1/2 hrs.
- 12/20/85 Pumped 119 BO & 0 BW in 24 hrs..

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 STATE COMMISSION
 FEB 24 1985
 CONSERVATION DIVISION
 WICHITA

FEB 25 1985
 Confidential Summary
 WICHITA

15-07-20406-0000

WELL NAME:	Edsall "F" #10	PTD:	5300'
AREA:	S.W. Stockholm	ELEVATIONS:	3900' KB & 3890' GL
LOCATION:	Sec. 1-T16S-R43W	CONTRACTOR:	Murfin
COUNTY:	Greeley	AFE NUMBER:	860314
STATE:	Kansas	LSE NUMBER:	77041
FOOTAGE:	2970' FSL & 990' FEL	TXO WI:	

12/21 Pumped 104 BO & 0 BW in 22-3/4 hrs @ 10 SPM (109=24 equiv).

12/22 Pumped 92 BO & 0 BW in 21 hrs @ 10 SPM (104=24 equiv).

12/23 Pumped 150 BO & 0 BW in 27 hrs @ 8 SPM (133=24 equiv). IP pumping
 Morrow oil well @ 116 BO & 0 BW. FINAL REPORT!!! DW: 35,000.
 CW: 233,458.

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FEB 24 1985
 CONSERVATION DIVISION
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