

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

Purchaser: The Permian Corp.
Tulsa, Oklahoma

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

Contractor: License # 6033
Name Murfin Drilling Company

Wellsite Geologist: Richard Bacon
Phone

Designate Type of Completion

New Well Re-Entry Workover

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

If OWWO: old well info as follows:

Operator
Well Name
Comp. Date Old Total Depth

WELL HISTORY

Drilling Method:

Mud Rotary Air Rotary Cable

10/6/85 10/12/85 10/30/85
Spud Date Date Reached TD Completion Date

5230' 5193'
Total Depth PBD

Amount of Surface Pipe Set and Cemented at 390 feet
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set... 1974 feet
if alternate 2 completion, cement circulated
from... 1974 feet depth to surface w/ 300 SX cmt

API NO. 15-071-20,397-0000

County: Greeley

SW NW NW Sec. 6 Twp. 16S Rge. 42 East West

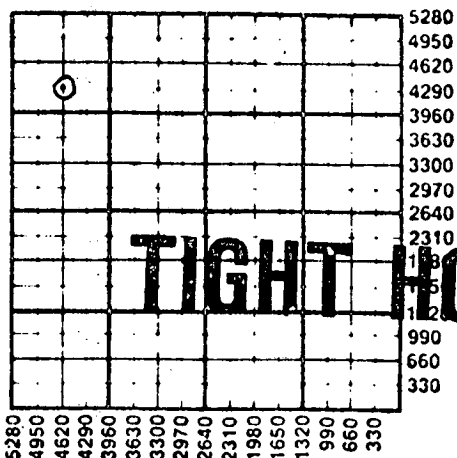
4290 Ft North from Southeast Corner of Section
4740 Ft West from Southeast Corner of Section
(Note: Locate well in section plat below)

Lease Name: Edsall "G" Well # 6

Field Name: S.W. Stockholm

Producing Formation: MORROW

Elevation: Ground 3859' KB 3869'
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 Drilling & Production Engineer Date 12/9/85

Subscribed and sworn to before me this 9 day of December 1985.
Notary Public: Nada J. Branson

Date Commission Expires: December 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)

DEC 16 1985
12-16-85

Sec 6 Twp 16Rge 42W

Operator Name TXO Production Corp. Lease Name Edsall "G" Well # 6

Sec. 6 Twp. 16S Rge. 42 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	2730	
Foraker	3530	
Topeka	3881	
Heebner	4098	
Lansing	4198	
Marmaton	4598	
Ft Scott	4674	
Cherokee	4715	
Atoka	4840	
Morrow	5012	
Johannes Sand	5078	
Lower Morrow Limestone	5098	
Mississippian	5154	

CONFIDENTIAL

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#	390'	lite	200	3% CaCl ₂
Production	7-7/8"	4 1/2"	10.5#	5230'	50-50 pot.	175	2% CaCl ₂

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

2 ispf	5083-5088	1000 gallons 7 1/2% MSR-150	
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RELEASED

TUBING RECORD Size Set At Packer at Liner Run Yes No
 2-3/8" 5154'

Date of First Production 10/30/85 Producing Method Flowing Pumping Gas lift Other (explain) **FROM CONFIDENTIAL**

Estimated Production Per 24 Hours	Oil	Gas	Water	Gas-Oil Ratio	Gravity
	204 Bbls	0 MCF	2 1/2 Bbls	CFPB	

METHOD OF COMPLETION

Disposition of gas: Vented Open Hole Perforation Sold Other (Specify) **5083-5088** Used on Lease

Dually Completed Commingled

Production Interval

STATE CORPORATION COMMISSION OF KANSAS
OIL & GAS CONSERVATION DIVISION

WELL COMPLETION OR RECOMPLETION FORM
ACO-1 WELL HISTORY

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Wellsite Geologist Richard Bacon
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 New Well Re-Entry Workover
 Oil SWD Temp Abd
 Gas Inj Delayed Comp.
 Dry Other (Core, Water Supply etc.)

If OWNED: old well info as follows:
Operator
Well Name
Comp. Date Old Total Depth

WELL HISTORY

Drilling Method:
 Mud Rotary Air Rotary Cable
10/6/85 10/13/85 10/30/85
Spud Date Date Reached TD Completion Date
5230' 5193'
Total Depth PBTD

Amount of Surface Pipe Set and Cemented at 390 feet
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set 1974 feet
if alternate 2 completion, cement circulated
from 1974 feet depth to 0' w/ 300 SX cmt

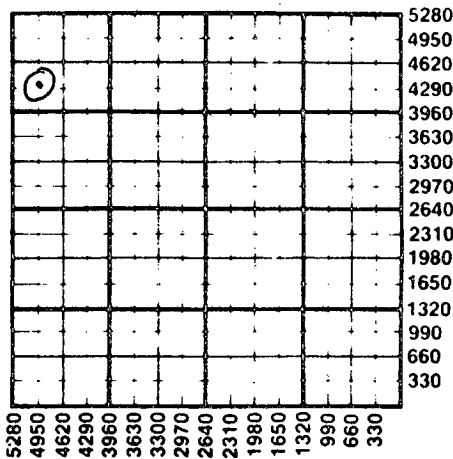
API NO. 15- 071-20,397-0000
County Greeley
SW NW NW Sec. 6 Twp 16S Rge 42 East West

4290 Ft North from Southeast Corner of Section
4740 Ft West from Southeast Corner of Section
(irregular section)
(Note: Locate well in section plat below)

Lease Name Edsall "G" Well # 6
Field Name SW Stockholm

Producing Formation Morrow

Elevation: Ground 3859' KB 3869'
Section Plat



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:
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. #)

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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 Production Engineer Date 5/14/86

Subscribed and sworn to before me this 14 day of May
19 86
Notary Public Nada J. Branson

Date Commission Expires Dec. 14, 1986

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)

MAY 19 1986
CONSERVATION DIVISION
Wichita, Kansas

sec 6 Twp 16 Rge 42

SIDE TWO

Operator Name TXO Production Corp. Lease Name Edsall "G" Well # 6

Sec. 6 Twp. 16S Rge. 42 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.

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Johannes Sandstone	5078'	
Mississippian	5154'	

CASING RECORD New Used

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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	1 1/2"	8-5/8"	24#/ft	390'	Class "H"	200	3% CaCl ₂
Production	7-7/8"	4 1/2"	10.5#/ft	5230'	50-50 poz	250	5% salt

PERFORATION RECORD

Shots Per Foot	Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
2	5083-88	1000 gallons 7 1/2% HCl	

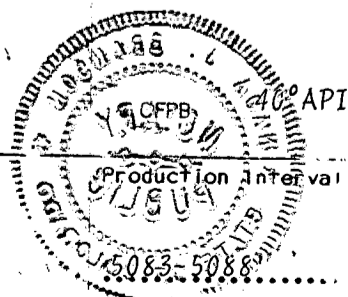
TUBING RECORD Size 2-3/8" Set At 5154' Packer at None Liner Run Yes No

Date of First Production 10/30/85 Producing Method Flowing Pumping Gas Lift Other (explain)

Estimated Production Per 24 Hours	Oil	Gas	Water	Gas-Oil Ratio	Gravity
	204 Bbls	0 MCF	2.5 Bbls		

METHOD OF COMPLETION

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



WELL NAME:	Edsall "G" #6	PTD:	5300'
AREA:	SW Stockholm	ELEVATIONS:	3869' KB, 3859' GL
LOCATION:	Sec. 6-T16S-R42W	CONTRACTOR:	Murfin Rig 21
COUNTY:	Greeley	AFE NUMBER:	
STATE:	Kansas	LSE NUMBER:	
FOOTAGE:	4290' FSL, 4740' FEL	TXO WI:	75%

APCOT FINADEL JOINT VENTURE
P.O. Box 2159
Dallas, Texas 75221
Attn: Houston Welch
Phone No: (214) 750-2400

10/07/85 391' (391'), WOC. Sh. 9, 35. 1/2° @ 391'. Spudded 12-1/4" hole @ 3 PM 10/6/85. Finished 12-1/4" hole @ 6:45 PM 10/6/85. RU & RIH w/ 9 jts 8-5/8", 24#, K-55, ST&C, R-3, 8rd, Cond A csg (380.7'). Set @ 390'. Cmtd w/ 100 sxs Halco lite w/ 3% CaCl₂, 100 sxs Cl "H" w/ 3% CaCl₂. Had full returns. Cmt circ. PD @ 8:55 PM 10/6/85. CW: 9875. DD 1.

10/08/85 2540' (2150'), drlg. Sh. Native. Drld plug @ 8:45 AM 10/7/85. Drlg ahead w/ full returns. DW: 19,247. CW: 29,122. DD 2.

10/09/85 3510' (970'), drlg. Lm & sh. Native. Surveys: Misrun @ 2940', 1° @ 2960'. DW: 9123. CW: 38,245

10/10/85 4300' (790'), drlg. Lm & sh. 9.3, 37. DW: 8870. CW: 47,115. DD 4.

10/11/85 4715' (415'), drlg. Sh & lm. 9.0, 32. 1/4° @ 4433'. DW: 5573. CW: 52,688. DD 5.

10/12/85 5090' (375'), drlg. Lm & sh. 9.2, 48, 8.2, 10. DW: 7203. CW: 59,891. DD 6.

10/13/85 5230' (140'), TIH to LD DP. Lm. 9.1, 56, 7.6, 10.5. 2° @ 5230'. TD 7-7/8" hole @ 4:45 AM 10/12/85. Circ & cond. ST. Circ. TOOH. RU Great Guns. Started logging @ 12 Midnight 10/13/85. Finished logging @ 4:15 AM 10/13/85. TIH to circ & cond. TOOH & LD DP & DC. DW: 2557. CW: 62,448. DD 7.

10/14/85 5230' (0'), RD. Lm. Finished LD DP & DC. RU csg crew. RIH w/ 4-1/2" csg as follows: (1) 4-1/2" guide shoe (1.10'), 1 jt 4-1/2", 10.5#, K-55, 8rd, ST&C, R-3, Cond-A csg (36.20'), 1 insert float w/ fillup attachment, 77 jts, 4-1/2", 10.5, K-55 csg (3218.37'), (1) 4-1/2" Pengo cmt sleeve (3.0'), 50 jts 4-1/2", 10.5, K-55 csg (1982.57). Shoe @ 5230'. Float @ 5192.7'. Cmt sleeve @ 1974.33'. RU Halco. Cmt csg w/ 175 sxs 50/50 poz w/ 5% salt, 3/4% CFR-2, 1/4#/sx flocele. Displ w/ 83 bbls 2% KCL. BP to 1500#. Held OK. PD @ 6:45 PM 10/13/85. Full returns. Set slips. RR @ 7:45 PM 10/13/85. Drop from report until completion begins. DW: 42,087. CW: 104,535.

10/18/85 5193' PBTD, MI & RU CT. Pull in tbg & unload. SD due to mud. Drop from report until roads improve. DW: 23,924. CW: 128,459.

10/22/85 5193' PBTD, MI & RU CT. RIH w/ 4-1/2" Pengo shifting tool (3.27'), 2-3/8" SSN (1.10'), 61 jts 2-3/8" tbg (1983.83'). RU Halco opened sleeve @ 1974'. Broke circ w/ 40 bbls wtr. Mix & pump 300 sxs lite cmt, displ w/ 7-1/2 bbls wtr. Close sleeve. Lowered tbg to 2013'. Reverse circ w/ 15 bbls 2% KCL. PT sleeve & csg to 1500#. All held. RIH w/ 93 jts tbg (3003.48'). Hung tbg @ 5020'. Swab FL to 3500'. POOH w/ tbg. LD shifting tool. SDFD. DW: 6335. CW: 134,794.

RECEIVED
STATE CORPORATION COMMISSION
MAY 19 1986
CONSERVATION DIVISION
Wichita, Kansas

WELL NAME: Edsall "G" #6
AREA: SW Stockholm
LOCATION: Sec. 6-T16S-R42W
COUNTY: Greeley
STATE: Kansas
FOOTAGE: 4290' FSL, 4740' FEL

PTD: 5300'
ELEVATIONS: 3869' KB, 3859' GL
CONTRACTOR: Murfin Rig 21
AFE NUMBER:
LSE NUMBER:
TXO WI: 75%

10/23/85 RU NL McCullough. RIH w/ GR-CCL correlate w/ open hole logs. Log from 5174' to 4150'. LTD 5178'. PU & RIH w/ 3-1/8" Omega jet csg gun perf from 5083' to 5088'. RD McCullough. PU & RIH w/ 4-1/2" Pengo PR-III pkr (6.10'), 2-3/8" SSN (1.10'); 154 jts, 2-3/8" OD, 8rd, 4.7#, J-55, EUE tbg (5007.31'). Set pkr @ 5020'. IFL @ 3100'. Swab for 1-1/2 hrs. LFL to 3400'. Rec 30 bbls total fluid; 20 BO & 10 BW, 95% oil on last run. RU Halco. Acidize w/ 1000 gals 7-1/2% HCl w/ Morrow additives w/ 24 ball sealers. MTD 4000#, ATP 2950#, MIR 4 BPM, AIR 3.8 BPM. Balled off to 4000#. Surged off balls complete displ ISDP 1250#, 2 min vacuum, 44-1/2 BLWTBR. RIH w/ swab. IFL @ 1900'. Swab for 2 hrs. LFL to 3400'. Rec 35 bbls. Last run 75% oil. Rec 15 BO & 20 BW. 9.5 BLWTBR. SWI. SDFN. DW: 7015. CW: 141,809.

10/24/85 SITP 50#. RU tbg swab. IFL @ 3000'. Swabbed 1-1/2 hrs. LFL to 3700'. Rec 24 BO & 1-1/2 BW. Last run 95% oil. Rel pkr. POOH w/ tbg. LD pkr. PU & RIH w/ tbg & equip as follows: 1 jts 2-3/8" OD, 8rd, 4.7#, J-55, EUE tbg w/ bull plugged btm (33.10'), 2-3/8" perforated tbg sub (3.10'), 2-3/8" SSN (1.10'), 3 jts 2-3/8" tbg (97.53'), 4-1/2" Baker tbg anchor (3.10'), w/ 30,000# shear, 154 jts 2-3/8" tbg (5006.18'), btm of mud anchor @ 5154'. Perforated tbg sub @ 5120.9-5117.8'. SSN @ 5116.70'. TAC @ 5016.07'. Set w/ 18,000# tension. PU & RIH w/ 2" x 1.5' x 20' RWBC Axelson pump & 6" gas anchor, (1) 3/4" x 2' plain rod sub, (136) 3/4" x 25' Cl "C" plain rods, (65) 3/4" x 25' Cl "D" scraped rods, (1) 3/4" x 8' pony, (2) 3/4" x 6' pony, 1-1/4" x 22' polish rod w/ 10' liner. Seat pump clamp off. RR @ 5:30 PM 10/25/85. Drop from report until production facilities are set. DW: 2300. CW: 144,109.

10/27/85 Started PU @ 6:45 PM 10/26/85. Pumped up @ 8 AM. Pumped 83 BO & 24 BW in 15 hrs 10 SPM. WH grin out @ gauge time 92% oil.

10/28/85 Pumped 228 BO & 5 BW in 26 hrs 10 SPM. WH grind out @ gauge time 99% oil.

10/29/85 Pumped 187 BO & 0 BW in 22 hrs. (24 hr equilant 204 BO & 0 BW.) WH grind out @ gauge time 100% oil.

10/30/85 Pumped 203 BO & 2-1/2 BW in 24 hrs 10 SPM. IP pumping Morrow oil well @ 204 BO & BW. FINAL REPORT!!!