

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, CO 80264

Purchaser KOCH

Operator Contact Person
 Phone (303) 861-4246

Contractor: License # 6033
 Name Murfin Drilling Company

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

WELL HISTORY

Drilling Method:
 Mud Rotary Air Rotary Cable

12/04/85 12/11/85 1-6-86
 Spud Date Date Reached TD Completion Date
5250' 5210'
 Total Depth PBTD

Amount of Surface Pipe Set and Cemented at 384 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- 071-~~4400~~-0000
20402

County Greeley

SE NE NW Sec. 6 Twp. 16S Rge. 42 East West

4290 Ft North from Southeast Corner of Section
2970 Ft West from Southeast Corner of Section

(Note: Locate well in section plat below)

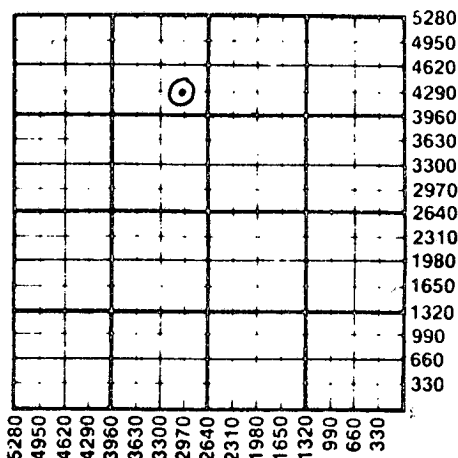
Lease Name Edsall "G" Well # 9

Field Name S.W. Stockholm

Producing Formation MORROW Ss

Elevation: Ground 3847' KB 3857'

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 Drilling & Production Engineer Date

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 Timelog Received
 Distribution
 KCC SWD/Rep NGPA
 KGS Plug Other
 (Specify)

STATE CORPORATION COMMISSION Form ACO-1 (7-84)

FEB 24 1986
 CONSERVATION DIVISION
 WICHITA, KANSAS

sec 6 twp 16rge 42w

SIDE TWO

Operator Name TXO Production Corp. Lease Name Edsall "G" Well # 9

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	2728	
Foraker	3519	
Topeka	3885	
Heebner	4105	
Lansing	4205	
Marmaton	4595	
Ft. Scott	4669	
Cherokee	4721	
Atoka	4862	
Morrow	5027	
Stockholm Sand	5114	
L. Morrow Limestone	5146	
Mississippian	5176	

RELEASED

MAR 17 1987

CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used Report all strings set-conductor, surface, intermediate, production, etc.		FROM CONFIDENTIAL					
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#	384'	Cl "G"	200	3% CaCl ₂
Production	7-7/8"	4 1/2"	10.5#	5250'	50-50 pop	225	5% salt ²
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	5114-5131'			24,100 gallons 3% gelled acid & 17,280# 20/40 mesh sand			
TUBING RECORD		Size	Set At	Packer at	Liner Run	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
		2-3/8"	5088	None			
Date of First Production		Producing Method					
1/6/86		<input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (explain.....)					
Estimated Production Per 24 Hours		Oil	Gas	Water	Gas-Oil Ratio	Gravity	
90 Bbls			MCF	10 Bbls		CFPB	

METHOD OF COMPLETION

Production Interval

Disposition of gas: Vented Open Hole Perforation
 Sold Other (Specify) 5114-5131'
 used on lease

Daily Completed
 Commingled

WELL NAME:	Edsall "G" #9	PTD:	5300'
AREA:	SW Stockholm	ELEVATIONS:	3857' KB & 3847' GL
LOCATION:	Sec. 6-T16S-R42W	CONTRACTOR:	Murfin
COUNTY:	Greeley	AFE NUMBER:	860613
STATE:	Kansas	LSE NUMBER:	76492
FOOTAGE:	2310' FWL & 990' FNL	TXO WI:	75%

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

Weekly Mail

JUL 24 1985
 KANSAS GEOLOGICAL SURVEY
 WICHITA BRANCH

CONFIDENTIAL

- 12/05/85 385' (385'), WOC. 9.1, 36. 0° @ 385'. MI & RU Murfin Rig #21. Spudded 12-1/4" hole @ 12 PM 12/04/85. TD 12-1/4" hole @ 10:15 PM 12/04/85. RIH w/ 9 jts; 8-5/8", OD, 8rd, 24#, K-55, ST&C csg (374.04'). Set @ 384'. Cmtd w/ 100 sxs lite w/ 3% CaCl₂ tailed w/ 100 sxs Cl "G" w/ 2% CaCl₂. Full returns. Cmt circ. PD @ 1:30 AM 12/05/85. DW: 9805'. CW: 9805. DD 1.
- 12/06/85 1790' (1405'), drlg. Sh. 9.1, 34. 1-1/2° @ 1530'. NU BOP. PT to 1000# for 10 min. All held. Drld plug @ 1:30 PM 12/05/85. DW: 12,851. CW: 22,656. DD 2.
- 12/07/85 3210' (1420'), drlg. Sh. Native. DW: 12,823. CW: 35,479. DD 3.
- 12/08/85 3850' (640'), drlg. Sh & lm. Native. DW: 6170. CW: 41,649. DD 4.
- 12/09/85 4475' (625'), drlg. Sh. 9.1, 28. LC @ 3930' (approx 80 bbls). LC @ 4284' (approx 80 bbls). DW: 7440. CW: 49,809. DD 5.
- 12/10/85 4955' (480'), bit trip. Lm & sh. 9.1, 34. DW: 7710. CW: 56,799. DD 6.
- 12/11/85 5250' (295'), circ for logs. Lm. 9.4, 50, 8.0, 11.5. 1/2° @ 4955'. TD 7-7/8" hole @ 3:45 AM 12/11/85. Circ. 12 stds ST. Circ. Had good reverse drlg brk from 5110-5132', 3-4-1 1/2 MPF. Smpls shows had approx 16% visible porosity, good cut, fluor, & trace of stain. DW: 4986. CW: 61,785. DD 7.
- 12/12/85 5250' (0'), running 4-1/2" csg. Mississippian. 9.2, 53, 7.8, 11.5. 2° @ 5250'. Started logging @ 11 AM 12/11/85. Finished logging @ 4:30 PM 12/11/85. RIH & LD DP & DC. RU casers, start in hole w/ 4-1/2" csg. DW: 6667. CW: 68,452. DD 8.
- 12/13/85 5250' (0'), RD & MO RT. RIH w/ 4-1/2" csg as follows: 4-1/2" cmt guide shoe (1.10'), 1 jt 4-1/2", OD, 8rd, 10.5#, K-55, ST&C, R-3, C-A csg (37.60'), insert float w/ fillup attachment, 77 jts 4-1/2" csg same as above (3218.65'), 4-1/2" Pengo cmtg sleeve (4.10'), 48 jts csg same as above. Shoe landed @ 5250'. Float @ 5211'. Sleeve @ 1989.55'. Cmtd w/ 225 sxs 50/50 poz w/ 5% salt, 3/4% D-65, 1/4#/sx celloflake. Displ w/ 83 bbls 2% KCL. BP to 1500#. Float held, had full returns. PD @ 9:15 AM 12/12/85. RR @ 10:15 AM 12/12/85. DW: 37,714. CW: 106,166. DD 9.
- 12/14/85 RD & MO RT.
- 12/15/85 MI & RU completion tools.
- 12/16/85 Will start completion today.
- 12/17/85 RIH w/ 4-1/2" Pengo shifting tool (3.10'), 2-3/8" SSN (1.10'), tool dragging w/ 31 jts in hole. POOH. Repair drag springs. RIH w/ 61 jts tbg, SSN, shifting tool (2007.92'). Opened sleeve @ 1989'. RU Western. Brk circ w/ 20 bbls wtr. Mix & pump 350 sxs lite w/ 1/4#/sx celloflake. Displ w/ 7-1/2 bbls wtr. Close sleeve. Lower tbg to 2020'. Rev circ w/ 18 bbls 2% KCL. PT sleeve to 2000# for 10 min, all held. RIH w/ 95 jts 2-3/8" tbg (3163.00'). Hung tbg @ 5183'. SDFD. DW: 28,579. CW: 134,745.

RELEASED

MAR 17 1987

FROM CONFIDENTIAL

WELL NAME:	Edsall "G" #9	PTD:	5300'
AREA:	SW Stockholm	ELEVATIONS:	3857' KB & 3847' GL
LOCATION:	Sec. 6-T16S-R42W	CONTRACTOR:	Murfin
COUNTY:	Greeley	AFE NUMBER:	860613
STATE:	Kansas	LSE NUMBER:	76492
FOOTAGE:	2310' FWL & 990' FNL	TXO WI:	75%

CONFIDENTIAL

- 12/18/85 5210' PBDT, swab fluid level dn to 3500'. POOH w/ tbg & equip. LD ST. RU McCullough. RIH w/ GR-CCL from 5206' to 4600'. LTD @ 5210'. RIH w/ 3-1/8" csg gun. Perf 4-1/2" csg from 5114' to 5131' 2 JSPF (36 holes). POOH. RIH w/ 4-1/2" Pengo PR-III pkr (7.10'), 2-3/8" SSN (1.10'), 153 jts 2-3/8" tbg (5035.93'). Set pkr @ 5051'. RU tbg swab. IFL @ 3500'. Swabbed for 2 hrs. LFL to 4700'. Recovered 17-1/2 bbls total fluid w/ very slight show of oil. SWI. SDFN. DW: 7145. CW: 141,890.
- 12/19/85 SITP 200#. RU Halco. Load csg. PT backside, could not pressure up. Rel pkr, re-set, would not hold. POOH w/ tbg & pkr. Pkr hung up @ 1870'. Rel pkr. Finish TOOH. LD pkr, WO pkr. RIH w/ pkr & tbg to 2050'. Set pkr, PT csg to 1000#. All held. RIH w/ 20 stds tbg. SDFD. DW: 1800. CW: 143,690.
- 12/20/85 Finish RIH w/ tbg & equip as follows: 4-1/2" Pengo PR-III pkr (7.10'), 2-3/8" SSN (1.10'), 153 jts 2-3/8", 4.7#, J-55, EUE, 8rd tbg (5035.93'). Set pkr @ 5051'. RU Halco. PT csg to 2000#, frac dn 2-3/8" tbg w/ 24,100 gals 3% gelled acid w/ 500 scf/bbl CO₂ & 17,280# 20/40 mesh sd as follows: 10,000 gal pad, 4000 gals 1/2 ppg 20/40 sd, 4000 gals 1 ppg 20/40 sd, 3000 gals 1-1/2 ppg 20/40 sd, 2000 gals 2 ppg 20/40 sd, 1110 gals 2.5 ppg 20/40 sd. Displ w/ 21 bbls 2% KCl w/ 500 scf/bbl CO₂. MTP 3660#, ATP 3450#, MIR 13 BPM, AIR 13 BPM. ISDP 900# 5 min 850#, 15 min 730#. 595 BLWTBR. SWI. SDFD. DW: 24,984. CW: 168,674.
- 12/21/85 5120' PBDT, SITP after 16-1/2 hrs 580#. Open well to frac tank. Flowed for 4 hrs then well died. Flowed 19 bbl frac fluid. RU swab. IFL @ 3500'. Swabbed for 5 hrs. FL steady @ 3500'. Rec 44 bls frac fluid w/ trace oil. SWI. SDFN. DW: 1640. CW: 170,314.
- 12/22/85 5210' PBDT, SITP 350#. Blow well dn. RU swab. IFL @ 2100'. Swab for 7 hrs. Lower FL to 3500'. Rec 61 bbls (41-1/2 BW & 19-1/2 BO). Last oil cut was 45%. Rel pkr. Lower tbg. Tag sd @ 5131'. TOOH w/ 137 jts tbg. SWI. SDFN. DW: 2110. CW: 172,424.
- 12/23/85 SDFS.
- 12/24/85 Finish POOH w/ 8 stds of tbg. LD pkr. RU & RIH w/ Baker Hydrostatic bailer (15.00'), 156 jts 2-3/8" tbg (5167.75'). Tag sd @ 5131', CO to 5211' (PBDT). POOH. LD bailer. RIH w/ 1 jt 2-3/8", OD, 8rd, EUE, J-55, R-2, C-A tbg w/ bull plugged btm (33.35'), 2-3/8" perf tbg sub (3.10'), 2-3/8" SSN (1.10'), 3 jts 2-3/8" tbg (98.92'), 4-1/2" Baker TAC (3.0'), 151 jts 2-3/8" tbg (4937.03'). Mud anchor @ 5088'. Perf sub @ 5054.65'. SSN @ 5050.45'. TAC @ 4951.53'. TAC set w/ 15,000# tension. SWI. SDFD. DW: 3382. CW: 175,806.
- 12/25/85 SD for holiday.
&
12/26/85
- 12/27/85 5210' PBDT, RIH w/ 2" x 1.5" x 20' RWAC Axelson pump w/ 2' gas anchor, 3/4" x 2' pony, (137) 3/4" x 25' plain grade "C", (67) 3/4" x 25' grade "D" scraped rods, (1) 3/4" x 6' pony, (1) 3/4" x 4' pony, (1) 3/4" x 2' pony, 1-1/4" x 22' polish rod w/ 10' liner. Seat pump. Clamp off. RR @ 2:30 PM 12/26/85. Drop from report until production equipment is installed. DW: 1970. CW: 177,776.
- 12/29/85 Started PU @ 5 PM 12/28/85. Well pumped up @ 6 PM.
- 12/30/85 Pumped 0 BO & 104 BW in 18-1/2 hrs, 11-1/2 SPM. (Will have wtr analysis today.)
- 12/31/85 Pumped 14 BO & 20 BW in 19-1/2 hrs. Dynamometer shows plunger fluid cut. Will MI & RU WU to x-out pump.

FEB 24 1986

15-071-20402-0000

WELL NAME: Edsall "G" #9
AREA: SW Stockholm
LOCATION: Sec. 6-T16S-R42W
COUNTY: Greeley
STATE: Kansas
FOOTAGE: 2310' FWL & 990' FNL

PTD: 5300'
ELEVATIONS: 3857' KB & 3847' GL
CONTRACTOR: Murfin
AFE NUMBER: 860613
LSE NUMBER: 76492
TXO WI: 75%

CONFIDENTIAL

01/01/86 Pumped 12 BO & 16 BW in 23-1/2 hrs @ 8-1/2 SPM. MI & RU WU. POOH w/ pump & rods. Rel TAC. Lower tbg to 5210' (PBD). PU tbg & reset @ 4951'. Replace pump. RIH w/ 2" x 1.5" x 20' RWAC Axelson pump w/ Jetty Fagg plunger & 2' anchor, (1) 3/4" x 2' pony, (137) 3/4" x 25' plain rods, (67) 3/4" x 25' scraped rods, 3/4" x 6' pony, 3/4" x 4' pony, 3/4" x 2 pony, 1-1/4" x 22' polish rod w/ 10' liner. Seat pump hung on, started unit @ 4 PM 1/1/85. Loaded hole. Pumped up @ 5 PM. RR @ 4 PM. DW: 2040. CW: 179,821.

01/02/86 Pumped 52 BO & 16 BW in 19 hrs @ 8-1/2 SPM. DW: 0. CW: 177,776.

01/03/86 Pumped 56 BO & 8 BW in 25 hrs @ 8-1/2 SPM.

01/04/86 Pumped 44 BO & 16 BW in 24 hrs @ 8 SPM.

01/05/86 Pumped 24 BO & 8 BW in 24 hrs @ 8 SPM.

01/06/86 Pumped 129 BO & 3 BW in 27-1/4 hrs @ 8-1/2 SPM.

01/07/86 Pumped 91 BO & 4 BW in 22-1/2 hrs @ 8-1/2 SPM.

01/08/86 Pumped 96 BO & 0 BW in 24-1/4 hrs @ 8-1/2 SPM. IP'd Morrow SS pumping oil well @ 96 BOPD & 0 BWPD. FINAL REPORT!!!

01/06/86 Made 39 MCFD in 24 hrs.

JUL 24 1986
SURVEY
BRANCH

RECEIVED
STATE CORPORATION COMMISSION

FEB 24 1986

CONSERVATION DIVISION
Wichita, Kansas

15-071-26402-0000

WELL NAME: Edsall "G" #9
AREA: SW Stockholm
LOCATION: Sec. 6-T16S-R42W
COUNTY: Greeley
STATE: Kansas
FOOTAGE: 2310' FWL & 990' FNL

PTD: 5300'
ELEVATIONS: 3857' KB & 3847' GL
CONTRACTOR: Murfin
AFE NUMBER: 860613
LSE NUMBER: 76492
TXO WI: 75%

CONFIDENTIAL

- 01/01/86 Pumped 12 BO & 16 BW in 23-1/2 hrs @ 8-1/2 SPM. MI & RU WU. POOH w/ pump & rods. Rel TAC. Lower tbg to 5210' (PBD). PU tbg & reset @ 4951'. Replace pump. RIH w/ 2" x 1.5" x 20' RWAC Axelson pump w/ Jetty Fagg plunger & 2' anchor, (1) 3/4" x 2' pony, (137) 3/4" x 25' plain rods, (67) 3/4" x 25' scraped rods, 3/4" x 6' pony, 3/4" x 4' pony, 3/4" x 2 pony, 1-1/4" x 22' polish rod w/ 10' liner. Seat pump hung on, started unit @ 4 PM 1/1/85. Loaded hole. Pumped up @ 5 PM. RR @ 4 PM. DW: 2040. CW: 179,821.
- 01/02/86 Pumped 52 BO & 16 BW in 19 hrs @ 8-1/2 SPM. DW: 0. CW: 177,776.
- 01/03/86 Pumped 56 BO & 8 BW in 25 hrs @ 8-1/2 SPM.
- 01/04/86 Pumped 44 BO & 16 BW in 24 hrs @ 8 SPM.
- 01/05/86 Pumped 24 BO & 8 BW in 24 hrs @ 8 SPM.
- 01/06/86 Pumped 129 BO & 3 BW in 27-1/4 hrs @ 8-1/2 SPM.
- 01/07/86 Pumped 91 BO & 4 BW in 22-1/2 hrs @ 8-1/2 SPM.
- 01/08/86 Pumped 96 BO & 0 BW in 24-1/4 hrs @ 8-1/2 SPM. IP'd Morrow SS pumping oil well @ 96 BOPD & 0 BWPD. FINAL REPORT!!!

JUL 24 1986
KANSAS GEOLOGICAL SURVEY
WICHITA BRANCH