

ORIGINALS

RELEASED 90

NOV 16 1989

SIDE ONE

STATE CORPORATION COMMISSION OF KANSAS  
OIL & GAS CONSERVATION DIVISION  
WELL COMPLETION FORM  
ACO-1 WELL HISTORY  
DESCRIPTION OF WELL AND LEASE

Operator: License # 5171  
Name: TXO PRODUCTION CORPORATION  
Address 1660 Lincoln St. - Suite 1800  
City/State/Zip Denver, Colorado 80264  
Purchaser: Vesta Energy  
Operator Contact Person: Les Smith  
Phone (303) 861-4246  
Contractor: Name: DUKE DRILLING CO., INC.  
License: 5929

Wellsite Geologist: Ken LeBlanc

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 \_\_\_\_\_

Drilling Method:  
 Mud Rotary  Air Rotary  Cable  
9/17/89 9/26/89 10/12/89  
Spud Date Date Reached TD Completion Date

API NO. 15- 007-22,262-0000 FROM CONFIDENTIAL

County Barber  
C - SE SE Sec. 31 Twp. 33 Rge. 13  East West

660 Ft. North from Southeast Corner of Section  
710 Ft. West from Southeast Corner of Section  
(NOTE: Locate well in section plat below.)

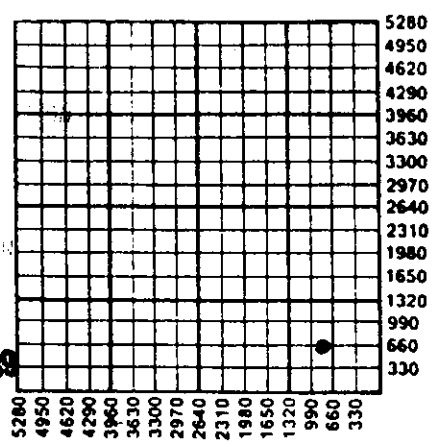
Lease Name Baier Well # 2

Field Name Aetna Gas Area

Producing Formation Mississippian

Elevation: Ground 1871' KB 1879'

Total Depth 5140' PBTD 5024'



NOV - 6 1989  
11-6-89

NOV 07 1989

KANSAS GEOLOGICAL SURVEY  
WICHITA BRANCH

ACT I  
1-16-89

Amount of Surface Pipe Set and Cemented at 383' Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set \_\_\_\_\_ Feet

If Alternate II completion, cement circulated from \_\_\_\_\_

feet depth to \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt.

INSTRUCTIONS: This form shall be completed in triplicate and filed with the Kansas Corporation Commission, 200 Colorado Derby Building, Wichita, Kansas 67202, within 120 days of the spud date of any well. Rule 82-3-130, 82-3-107 and 82-3-106 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. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells. Any recompletion, workover or conversion of a well requires filing of ACO-2 within 120 days from commencement date of such work.

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 Les Smith

Title Petroleum Engineer Date 11/2/89

Subscribed and sworn to before me this 2 day of November, 19 89.

Notary Public Char Stecke

Date Commission Expires Febr 8, 1993

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)

**SIDE TWO**

Operator Name TXO PRODUCTION COPORATION Lease Name BAIER Well # 2  
 Sec. 31 Twp. 33S Rge. 13  East County Barber  
 West

**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. **RELEASED**  
 if more space is needed. Attach copy of log.

Drill Stem Tests Taken (Attach Additional Sheets.)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Formation Description <input checked="" type="checkbox"/> Log <input type="checkbox"/> Sample FROM CONFIDENTIAL 6 1991															
Samples Sent to Geological Survey	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																
Cores Taken	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No																
Electric Log Run (Submit Copy.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																
		<table border="1"> <thead> <tr> <th>Name</th> <th>Top</th> <th>Bottom</th> </tr> </thead> <tbody> <tr> <td>L-KC</td> <td>4276'</td> <td></td> </tr> <tr> <td>Swope</td> <td>4683'</td> <td></td> </tr> <tr> <td>Miss</td> <td>4834'</td> <td></td> </tr> <tr> <td>TD</td> <td>5140'</td> <td></td> </tr> </tbody> </table>	Name	Top	Bottom	L-KC	4276'		Swope	4683'		Miss	4834'		TD	5140'	
Name	Top	Bottom															
L-KC	4276'																
Swope	4683'																
Miss	4834'																
TD	5140'																

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	388	lite	275	
Production	7-7/8	4 1/2	10.5	5024	surefill	150	

PERFORATION RECORD		Acid, Fracture, Shot, Cement Squeeze Record	
Shots Per Foot	Specify Footage of Each Interval Perforated	(Amount and Kind of Material Used)	Depth
1	4838-66', 4930-46', 4948-52'	2000 gal 15% HCL 119,500 # sand	4838-4952'

<b>TUBING RECORD</b>	Size 2-3/8	Set At 4818'	Packer At N/A	Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
----------------------	---------------	-----------------	------------------	--

Date of First Production 10/12/89	Producing Method <input checked="" type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)
Estimated Production Per 24 Hours	Oil 0 Bbls. Gas 850 Mcf Water 0 Bbls. Gas-Oil Ratio Gravity

Disposition of Gas:  Vented  Sold  Used on Lease (If vented, submit ACO-18.)

METHOD OF COMPLETION:  Open Hole  Perforation  Dually Completed  Commingled  Other (Specify) \_\_\_\_\_

Production Interval: \_\_\_\_\_

DRILLER'S WELL LOG

NOV 6 1989

TXO PRODUCTION CORPORATION  
BAIER #2  
Section 31-33S-13W  
Barber County, Kansas.

FROM CONFIDENTIAL  
COMMENCED: September 27, 1989  
COMPLETED: September 26, 1989

0' - 1125' Surface  
1125' - 1344' Clay & Shale  
1344' - 1900' Shale  
1900' - 2265' Shale w/Lime Streaks  
2265' - 2535' Shale & Lime  
2535' - 3195' Shale & Lime  
3195' - 3740' Shale & Lime  
3740' - 4251' Lime & Shale  
4251' - 4700' Lime & Shale  
4700' - 4880' Shale & Lime  
4880' - 5140' Lime & Shale  
- 5140' RTD

Surface Casing: Set 9 jts. New 8-5/8"  
at 383' w/200 sacks Lite, 75 sacks  
Common, 3% Calcium.

Production Casing: Set 128 jts. Used  
4 1/2"x10/5# at 5024' w/150 sacks Surefill  
4# Gilsonite, 1/2# Cello Flake.

NOV 6 1989  
11-6-89  
KANSAS GEOLOGICAL SURVEY  
WICHITA BRANCH

NOV 07 1989

AFFIDAVIT


STATE OF KANSAS )  
                          ) ss:  
COUNTY OF SEDGWICK )

KANSAS GEOLOGICAL SURVEY  
WICHITA BRANCH

Ralph R. Hamilton, of lawful age, does swear and state that the facts  
and statements herein are true and correct to the best of his knowledge.

*Ralph R. Hamilton*  
Ralph R. Hamilton

Subscribed and sworn to me this 5th day of October, 1989.

 SALLY R. BYERS  
NOTARY PUBLIC  
STATE OF KANSAS  
My Appl. Exp. 12/6/92

*Sally R. Byers*  
Sally R. Byers

My Commission Expires: December 6, 1992

15-007-22262-0000

STATE OF KANSAS - CORPORATION COMMISSION  
ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST.

FORM O-2  
8-7-59

TYPE TEST:  Deliverability  Open Flow TEST DATE: 1-16-90

COMPANY: TXO Production Corp. LEASE: BAUER WELL NO.: 2

COUNTY: BARBER LOCATION: 660' FSL 4 710 FEL SECTION: 31 TWP: 33S R1G: 13W ACRES:

FIELD: AETNA RESERVOIR: MISSISSIPPIAN PIPELINE CONNECTION: KANSAS NATURAL

COMPLETION DATE: 10-12-89 PLUG BACK TOTAL DEPTH: 5001 PACKER SET AT:

CASING SIZE: 4 1/2" WT.: 10.5 # I.D.: 4.025 SET AT: PERF.: 4938' TO 4866' 4950' TO 4952'

TUBING SIZE: 2 3/8" WT.: 4.7 # I.D.: 1.995 SET AT: 4824' PERF.: TO

TYPE COMPLETION (Describe): Single TYPE FLUID PRODUCTION: GAS

PRODUCING THRU: Tubing RESERVOIR TEMPERATURE: BAR. PRESS - P<sub>a</sub>: 14.4 Psia

GAS GRAVITY - G<sub>s</sub>: 0.65 % CARBON DIOXIDE: % NITROGEN: API GRAVITY OF LIQUID:

VERTICAL DEPTH (H): 4895' TYPE METER CONN.: FLANGE TAP (METER RUN) (PROVER) SIZE: 3.068

SHUT-IN PRESSURE: SHUT IN: 19 AT (AM)(PM) TAKEN: 1-15 1990 AT (AM)(PM)

FLOW TEST: STARTED: 1-15-1990 AT (AM)(PM) TAKEN: 1-16 1990 AT (AM)(PM)

OBSERVED DATA

DURATION OF SHUT-IN: HR.

SHUT-IN OR FLOW	ORIFICE SIZE in.	(METER) (PROVER) PRESSURE psig	DIFF. in. (h <sub>w</sub> )(h <sub>d</sub> )	FLOWING TEMP. t	WELL-HEAD TEMP. t	CASING WELLHEAD PRESS		TUBING WELLHEAD PRESS		DURATION HOURS	LIQUID PROD. Bbls.
						psig	(P <sub>w</sub> )(P <sub>i</sub> )(P <sub>c</sub> ) psia	psig	(P <sub>w</sub> )(P <sub>i</sub> )(P <sub>a</sub> ) psia		
SHUT-IN						460	474.4	460	474.4	72	
FLOW	1.00	199	30	70		410	424.4	300	314.4	24	

RATE OF FLOW CALCULATIONS

COEFFICIENT (F <sub>p</sub> )(F <sub>a</sub> ) Mcd	(METER) (PROVER) PRESSURE psia	EXTENSION √P <sub>m</sub> h <sub>w</sub>	GRAVITY FACTOR F <sub>g</sub>	FLOWING TEMP. F <sub>t</sub>	DEVIATION FACTOR F <sub>pv</sub>	RATE OF FLOW R Mcd	GOR	G <sub>m</sub>
4.912	204.4	78.3071	1.2403	0.9905	1.0196	481.8		

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

(P<sub>c</sub>)<sup>2</sup> = 22,055; (P<sub>w</sub>)<sup>2</sup> = 180,115; P<sub>d</sub><sup>2</sup> = \_\_\_\_\_ % (P<sub>c</sub> - 14.4) + 14.4 = \_\_\_\_\_ (P<sub>w</sub>)<sup>2</sup> = 0.207

(P <sub>a</sub> ) <sup>2</sup> - (P <sub>a</sub> ) <sup>2</sup> or (P <sub>c</sub> ) <sup>2</sup> - (P <sub>w</sub> ) <sup>2</sup>	(P <sub>c</sub> ) <sup>2</sup> - (P <sub>w</sub> ) <sup>2</sup>	$\frac{P_c^2 - P_a^2}{P_c^2 - P_w^2}$	LOG [ ]	"n"	n = LOG [ ]	ANTILOG	OPEN FLOW DELIVERABILITY EQUALS R = ANTILOG Mcd
224,848	44,994	5.003	0.6993	0.745	0.5209	3.318	1599

OPEN FLOW 1599 Mcd @ 14.65 psia DELIVERABILITY Mcd @ 14.65 psia

The undersigned authority, on behalf of the Company, states that he is duly authorized to make the above report and that he has knowledge of the facts stated therein, and that said report is true and correct.

Executed this the 30 day of January, 1990.

2-6-90

Witness (if any)

*Signed Cory West*  
For Company

Checked by