

ORIGINAL

SIDE ONE

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

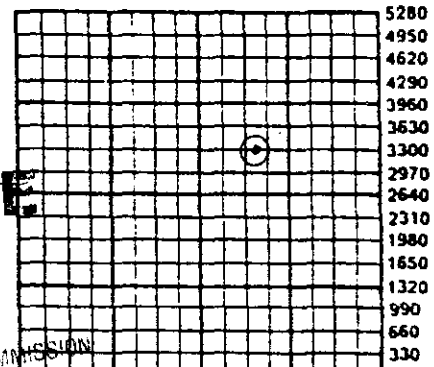
Operator: License # 5171  
Name: TXO Production Corp.  
Address 1660 Lincoln Street  
Suite 1800  
City/State/Zip Denver, CO 80264  
Purchaser: Phenix  
Operator Contact Person: Cory West  
Phone ( 303 ) 861-4246  
Contractor: Name: H-30 Drilling, Inc.  
License: 5107  
Wellsite Geologist: Tom Williams

Designate Type of Completion  
 New Well  Re-Entry  Write  
 Oil  SWD  Temp. Abd.  
 Gas  Inj  Delayed Comp.  
 Dry  Other (Core, Water Supply, etc.)

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

Drilling Method:  
 Mud Rotary  Air Rotary  Cable  
12-15-89 12-27-90 1-17-90  
Spud Date Date Reached TD Completion Date

API NO. 15- 007-22,280-0000  
County Barber ✓  
SW NE Sec. 32 Twp. 33 Rge. 13  East West  
3300 ✓ Ft. North from Southeast Corner of Section  
1850 ✓ Ft. West from Southeast Corner of Section  
(NOTE: Locate well in section plat below.)  
Lease Name Spriggs "A" ✓ Well # 2  
Field Name ---  
Producing Formation Mississippian  
Elevation: Ground 1822' KB 1827'  
Total Depth 5000' PBDT 4924'



**TIGHT HOLE**

RECEIVED  
STATE CORPORATION COMMISSION  
7-16-90  
JUL 16 1990

Amount of Surface Pipe Set and Cemented at 389 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 [Signature]  
Title Area Drlg & Production Engineer Date 7-12-90  
Subscribed and sworn to before me this 12 day of July,  
19 90.  
Notary Public Janice A. Parker  
Date Commission Expires 11-03-92

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)

SIDE TWO

Operator Name TXO Production Corp. Lease Name Spriggs "A" Well # 2  
 Sec. 32 Twp. 33S Rge. 13  East  West  
 County Barber

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 (Attach Additional Sheets.) (Refer to Attachments)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<b>Formation Description</b> <input checked="" type="checkbox"/> Log <input type="checkbox"/> Sample <table border="1"> <thead> <tr> <th>Name</th> <th>Top</th> <th>Bottom</th> </tr> </thead> <tbody> <tr><td>Lecompton</td><td>3782</td><td>(-1955)</td></tr> <tr><td>Kanwaka Sh.</td><td>3825</td><td>(-1998)</td></tr> <tr><td>Elgin SD.</td><td>3875</td><td>(-2048)</td></tr> <tr><td>Heebner Sh.</td><td>4036</td><td>(-2209)</td></tr> <tr><td>Snyderville</td><td>4052</td><td>(-2225)</td></tr> <tr><td>Brown Lime</td><td>4214</td><td>(-2387)</td></tr> <tr><td>Lansing</td><td>4223</td><td>(-2396)</td></tr> <tr><td>Stark Sh.</td><td>4610</td><td>(-2783)</td></tr> <tr><td>Swope</td><td>4614</td><td>(-2787)</td></tr> <tr><td>Hertha</td><td>4548</td><td>(-2821)</td></tr> <tr><td>Mississippian</td><td>4764</td><td>(-2937)</td></tr> </tbody> </table>	Name	Top	Bottom	Lecompton	3782	(-1955)	Kanwaka Sh.	3825	(-1998)	Elgin SD.	3875	(-2048)	Heebner Sh.	4036	(-2209)	Snyderville	4052	(-2225)	Brown Lime	4214	(-2387)	Lansing	4223	(-2396)	Stark Sh.	4610	(-2783)	Swope	4614	(-2787)	Hertha	4548	(-2821)	Mississippian	4764	(-2937)
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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																																					

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	389'	Lite Class "A"	200	2% gel, 3% CC
Production	7-7/8"	4 1/2"	11.6	4964'	Surefill	75	6#/sx gilsonite
						150	1/2#/sx celloflak

PERFORATION RECORD		Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	
Shots Per Foot	Specify Footage of Each Interval Perforated	Amount and Kind of Material Used	Depth
4767-87	1 shot/2' (25 holes total)	2100 gals 15% HCL	
4848-74	1 shot/2'	followed by 117,000 + CO <sub>2</sub> foam frac	

TUBING RECORD Size 2-3/8" Set At 4749' Packer At \_\_\_\_\_ Liner Run  Yes  No

Date of First Production 1-18-90 Producing Method  Flowing  Pumping  Gas Lift  Other (Explain) \_\_\_\_\_

Estimated Production Per 24 Hours	Oil Bbls. <u>TR</u>	Gas Mcf <u>1200</u>	Water Bbls. <u>± 3 BWPD</u>	Gas-Oil Ratio	Gravity
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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 \_\_\_\_\_

# TXO

**TXO PRODUCTION CORP.**

 1800 LINCOLN CENTER BUILDING  
 DENVER, COLORADO 80264

TELEPHONE (303) 861-4246

July 12, 1990

 Kansas Corporation Commission  
 200 Colorado Derby Building  
 202 West 1st Street  
 Wichita, Kansas 67202

 RE: ACO-1's and supporting  
 information on TXO Drilled  
 Wells - Request for  
 Confidentiality

Dear Sirs:

 Please find enclosed the ACO-1's and supporting information as required  
 by the Commission on recently drilled TXO wells. These wells are:

Spriggs "A" #2	Sec. 32-33S-13W	Barber Co.
Bouziden "B" #1	Sec. 17-35S-13W	Barber Co.

 Please keep all information "Confidential"; that is TITE HOLE. Please call  
 if there are any questions or concurs.

Sincerely,

TXO PRODUCTION CORP.



 Cory West  
 Drilling & Production Engineer

CW/lh

Enclosures

 RECEIVED  
 STATE CORPORATION COMMISSION

 JUL 16 1990  
 7-16-90  
 CONSERVATION DIVISION  
 Wichita, Kansas

 A SUBSIDIARY OF  TEXAS  
 OIL & GAS CORP.

State of Kansas



Kansas Corporation Commission

MIKE HAYDEN GOVERNOR  
KEITH R. HENLEY CHAIRMAN  
RICH KOWALEWSKI COMMISSIONER  
JACK SHRIVER COMMISSIONER  
JUDITH MCCONNELL EXECUTIVE DIRECTOR  
FRANK A. CAPO, JR. GENERAL COUNSEL

CONSERVATION DIVISION  
SHARI FEIST ALBRECHT, DIRECTOR  
200 Colorado Derby Bldg.  
202 W. 1st Street  
Wichita, KS 67202-1286  
(316) 263-3238

July 18, 1990

Cory West  
TXO Production Corporation  
1660 Lincoln Street  
Suite #1800  
Denver, Colorado 80264

Re: Confidentiality of Information on  
ACO-1 for Spriggs "A" #2 Well

Dear Mr. West:

The above-referenced ACO-1 has been referred to me. K.A.R. 82-3-107 provides for all information to be filed within 120 days of the spud date. Subsection (d) of that regulation states that "all rights to confidentiality shall be lost if the filings are not timely."

The above-referenced ACO-1 was not filed within the 120 days as is required. Therefore your request for confidential treatment cannot be granted.

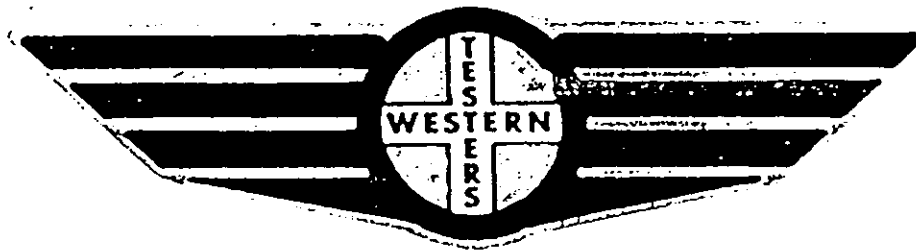
If you have any questions, please do not hesitate to contact me.

Sincerely,

A handwritten signature in cursive script, appearing to read "James W. Coder".

James W. Coder  
Assistant General Counsel

# FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

WESTERN TESTING CO. INC.  
SUBSURFACE PRESSURE SURVEY

DATE : 12/20/89 TICKET : 15248  
CUSTOMER : TXO PRODUCTION CORPORATION LEASE : SPRIGGS  
WELL : A-2 TEST: 1 GEOLOGIST : WILLIAMS  
ELEVATION : 1827 KB FORMATION : ELGIN  
SECTION : 32 TOWNSHIP : 33S  
RANGE : 13W COUNTY : BARBER STATE : KANSAS  
GAUGE SN# : 13552 RANGE : 4050 CLOCK : 12

INTERVAL FROM : 3824 TO : 3908 TOTAL DEPTH : 3908  
DEPTH OF SELECTIVE ZONE :  
PACKER DEPTH : 3819 SIZE : 6.63  
PACKER DEPTH : 3824 SIZE : 6.63  
PACKER DEPTH : SIZE :  
PACKER DEPTH : SIZE :

DRILLING CON. : H-30 DRILLING RIG #2  
MUD TYPE : CHEMICAL VISCOSITY : 38  
WEIGHT : 8.9 WATER LOSS (CC) : 11.2  
CHLORIDES (PPM) : 5000  
JARS-MAKE : WTC SERIAL NUMBER : 407  
DID WELL FLOW ? : NO REVERSED OUT ? : NO

DRILL COLLAR LENGTH : 0 FT I.D. inch : 0.00  
WEIGHT PIPE LENGTH : 0 FT I.D. inch : 0.00  
DRILL PIPE LENGTH : 3792 FT I.D. inch : 3.80  
TEST TOOL LENGTH : 32 FT TOOL SIZE : 5.50  
ANCHOR LENGTH : 84 FT ANCHOR SIZE : 5.50  
SURFACE CHOKE SIZE : .75 IN BOTTOM CHOKE SIZE : .75  
MAIN HOLE SIZE : 7.875 IN TOOL JOINT SIZE : 4.5 FH

BLOW COMMENT #1 : INITIAL FLOW PERIOD-STRONG BLOW THROUGHOUT  
BLOW COMMENT #2 :  
BLOW COMMENT #3 :  
BLOW COMMENT #4 :

RECOVERED : 90 FT OF: DRILLING MUD  
RECOVERED : 240 FT OF: MUDDY WATER  
RECOVERED : 2350 FT OF: SALT WATER  
RECOVERED : 0 FT OF: CHLORIDES 110000 PPM

Total Barrels Fluid = 37.59  
Total Fluid Prod Rate = 773.29 BFPD  
Indicated Wtr Rate = 712.96 BWPD

REMARK 1 :  
REMARK 2 :  
REMARK 3 :  
REMARK 4 :

SET PACKER(S) : 3:30 PM                      TIME STARTED OFF BOTTOM : 7:15 PM  
WELL TEMPERATURE : 109  
INITIAL HYDROSTATIC PRESSURE                      (A) 1871  
INITIAL FLOW PERIOD                      MIN: 30                      (B) 660                      PSI TO (C) : 994  
INITIAL CLOSED IN PERIOD                      MIN: 60                      (D) 1493  
FINAL FLOW PERIOD                      MIN: 40                      (E) 1141                      PSI TO (F) : 1369  
FINAL CLOSED IN PERIOD                      MIN: 90                      (G) 1498  
FINAL HYDROSTATIC PRESSURE                      (H) 1865

WESTERN TESTING CO. INC.  
WICHITA-KANSAS

Pressure Transient Report  
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COMPANY : TXO PRODUCTION CORPORATION  
RIG : BARBER-KANSAS  
FIELD : SPRIGGS  
WELL : A-2  
DATE : 12/20/89  
GAUGE NO : 13552

OPERATIONAL COMMENTS



COMPANY : TXO PRODUCTION CORPORATION  
 WELL : A-2  
 GAUGE # : 13552  
 DATE : 20/12/89

FIELD : SPRIGGS  
 JOB # : 15248  
 DEPTH : 3908  
 TEST :

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
INITIAL FLOW PERIOD					
2	3:30: 0	0.000	660.000	109.00	0.000
3	3:34:59	0.083	660.000	109.00	0.000
4	3:40: 0	0.167	710.000	109.00	50.000
5	3:45: 0	0.250	792.000	109.00	82.000
6	3:49:59	0.333	883.000	109.00	91.000
7	3:55: 0	0.417	955.000	109.00	72.000
8	4: 0: 0	0.500	994.000	109.00	39.000
INITIAL SHUT-IN PERIOD					
9	4: 3: 0	0.550	1370.000	109.00	376.000
10	4: 6: 0	0.600	1406.000	109.00	36.000
11	4: 9: 0	0.650	1426.000	109.00	20.000
12	4:12: 0	0.700	1440.000	109.00	14.000
13	4:15: 0	0.750	1451.000	109.00	11.000
14	4:18: 0	0.800	1461.000	109.00	10.000
15	4:21: 0	0.850	1466.000	109.00	5.000
16	4:24: 0	0.900	1472.000	109.00	6.000
17	4:27: 0	0.950	1475.000	109.00	3.000
18	4:30: 0	1.000	1478.000	109.00	3.000
19	4:33: 0	1.050	1480.000	109.00	2.000
20	4:36: 0	1.100	1482.000	109.00	2.000
21	4:39: 0	1.150	1484.000	109.00	2.000
22	4:42: 0	1.200	1486.000	109.00	2.000
23	4:45: 0	1.250	1488.000	109.00	2.000
24	4:48: 0	1.300	1489.000	109.00	1.000
25	4:51: 0	1.350	1490.000	109.00	1.000
26	4:54: 0	1.400	1491.000	109.00	1.000
27	4:57: 0	1.450	1492.000	109.00	1.000
28	5: 0: 0	1.500	1493.000	109.00	1.000
FINAL FLOW PERIOD					
29	5: 1: 0	1.517	1141.000	109.00	-352.000
30	5: 4:59	1.583	1141.000	109.00	0.000
31	5:10: 0	1.667	1162.000	109.00	21.000
32	5:15: 0	1.750	1203.000	109.00	41.000
33	5:19:59	1.833	1249.000	109.00	46.000
34	5:25: 0	1.917	1288.000	109.00	39.000
35	5:30: 0	2.000	1318.000	109.00	30.000
36	5:34:59	2.083	1343.000	109.00	25.000
37	5:40: 0	2.167	1369.000	109.00	26.000
FINAL SHUT-IN PERIOD					
38	5:43: 0	2.217	1449.000	109.00	80.000
39	5:46: 0	2.267	1464.000	109.00	15.000
40	5:49: 0	2.317	1471.000	109.00	7.000
41	5:52: 0	2.367	1476.000	109.00	5.000
42	5:55: 0	2.417	1479.000	109.00	3.000
43	5:58: 0	2.467	1481.000	109.00	2.000
44	6: 1: 0	2.517	1484.000	109.00	3.000
45	6: 4: 0	2.567	1486.000	109.00	2.000
46	6: 7: 0	2.617	1487.000	109.00	1.000
47	6:10: 0	2.667	1488.000	109.00	1.000
48	6:13: 0	2.717	1489.000	109.00	1.000

COMPANY : TXO PRODUCTION CORPORATION  
WELL : A-2  
GAUGE # : 13552  
DATE : 20/12/89

FIELD : SPRIGGS  
JOB # : 15248  
DEPTH : 3908  
TEST :

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
49	6:16: 0	2.767	1490.000	109.00	1.000
50	6:19: 0	2.817	1491.000	109.00	1.000
51	6:22: 0	2.867	1492.000	109.00	1.000
52	6:25: 0	2.917	1492.000	109.00	0.000
53	6:28: 0	2.967	1492.000	109.00	0.000
54	6:31: 0	3.017	1492.000	109.00	0.000
55	6:34: 0	3.067	1492.000	109.00	0.000
56	6:37: 0	3.117	1492.000	109.00	0.000
57	6:40: 0	3.167	1492.000	109.00	0.000
58	6:43: 0	3.217	1492.000	109.00	0.000
59	6:46: 0	3.267	1493.000	109.00	1.000
60	6:49: 0	3.317	1494.000	109.00	1.000
61	6:52: 0	3.367	1495.000	109.00	1.000
62	6:55: 0	3.417	1496.000	109.00	1.000
63	6:58: 0	3.467	1497.000	109.00	1.000
64	7: 1: 0	3.517	1498.000	109.00	1.000
65	7: 4: 0	3.567	1498.000	109.00	0.000
66	7: 7: 0	3.617	1498.000	109.00	0.000
67	7:10: 0	3.667	1498.000	109.00	0.000

WESTERN TESTING CO. INC.

FLUID SAMPLE REPORT

Date : 12/20/89 Ticket No. : 15248

Company : TXO PRODUCTION CORPORATION

Well Name & No. : SPRIGGS A-2

DST No. 1

County : BARBER State : KANSAS

Sampler No. : 1 Test Interval : 3824-3908

=====

Pressure in Sampler 50 PSIG BHT 109 Deg F

Total Volume of Sampler : 3150 cc  
 Total Volume of Sample : 2850 cc  
     Oil: cc  
     Water: 2750 cc  
     Mud: 100 cc  
     Gas: 1.33 cu ft  
     Other: cc

=====

RESITIVITY

Drilling Mud .33 @ 62 F Chloride Content 110000 ppm

Mud Pit Sample .27 @ 57 F Chloride Content 5000 ppm

Gas/Oil Ratio Gravity API @ Deg F

Where was sample drained

Remarks: