

JUL 0 2 1991

SIDE ONE

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

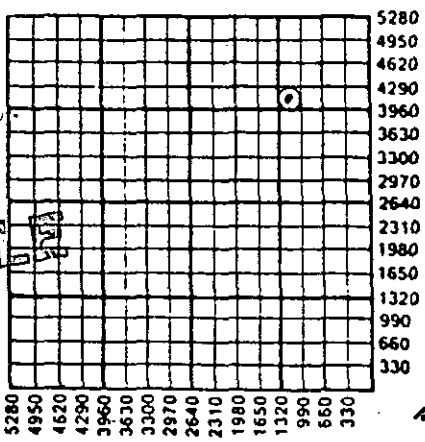
Operator: License # 5171
Name: TXO PRODUCTION CORP.
Address 1660 Lincoln Street
Suite 1800
City/State/Zip Denver, CO 80264
Purchaser: TBD
Operator Contact Person: Cory West
Phone (303) 861-4246
Contractor: Name: Eagle Drilling, Inc.
License: 5380
Wellsite Geologist: Tom Williams

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

If O.W.O.: old well info as follows:
Operator: - -
Well Name: - -
Comp. Date - Old Total Depth -
Drilling Method:
 Mud Rotary Air Rotary Cable
5-10-90 5-18-90 6-1-90
Spud Date Date Reached TD Completion Date

API NO. 15- 007-22,317-0000 FROM CONFIDENTIAL
County Barber
Approx C NE/4 Sec. 13 Twp. 34 Rge. 14 East West
4040 Ft. North from Southeast Corner of Section
1300 Ft. West from Southeast Corner of Section
(NOTE: Locate well in section plat below.)
Lease Name Clarke "K" Well # 1
Field Name Aetna
Producing Formation Mississippian
Elevation: Ground 1676' KB 1688'
Total Depth 5070' PBDT 4955'

RECEIVED
JUN 22 1990
6-22-90
CONSERVATION DIVISION
Wichita, Kansas



TIGHT HOLE

Amount of Surface Pipe Set and Cemented at 407' 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 Drilling/Production Engr. Date 6-15-90
Subscribed and sworn to before me this 15 day of June, 19 90.
Notary Public [Signature]
Date Commission Expires 11-03-92

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)

JUL 02 1991

SIDE TWO

Operator Name TXO PRODUCTION CORP. Lease Name Clarke "K" Well # 1
 FROM CONFIDENTIAL East County Barber
 Sec. 13 Twp. 34S Rge. 14 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. 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	Formation Description <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>Kanwaka Sh</td> <td>3790</td> <td>- 2102</td> </tr> <tr> <td>Heebner</td> <td>3986</td> <td>- 2298</td> </tr> <tr> <td>LKC</td> <td>4167</td> <td>- 2479</td> </tr> <tr> <td>Swope</td> <td>4580</td> <td>- 2892</td> </tr> <tr> <td>Mississippian</td> <td>4775</td> <td>- 3087</td> </tr> <tr> <td>Kinderhook Sh</td> <td>5008</td> <td>- 3320</td> </tr> </tbody> </table>	Name	Top	Bottom	Kanwaka Sh	3790	- 2102	Heebner	3986	- 2298	LKC	4167	- 2479	Swope	4580	- 2892	Mississippian	4775	- 3087	Kinderhook Sh	5008	- 3320
Name	Top		Bottom																				
Kanwaka Sh	3790		- 2102																				
Heebner	3986		- 2298																				
LKC	4167	- 2479																					
Swope	4580	- 2892																					
Mississippian	4775	- 3087																					
Kinderhook Sh	5008	- 3320																					
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 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
Conductor	-	20"	-	40'	-	-	-
Surface	12 1/2"	8-5/8"	24.0	407'	Lite Class "A"	200	3% CC
Production	7-7/8"	4 1/2"	10.5	4995'	Surefill	150	5% SX gillsonite 3% CC 1/2% SX Cellonite

Shots Per Foot	PERFORATION RECORD Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
	Perforated as follows: 4776', 4780', 4782', 4784', 4791', 4793', 4795', 4797', 4799', 4817', 4819', 4821', 4823', 4825', 4833', 4835', 4837', 4839', 4875', 4877', 4879', 4881', 4883', 4885', 4887', (25 holes total)	2500 gals 15% HCl followed by 36000 gal CO2 foam frac (110.4 tons CO2) pumped 108,000 # 12/20 sd. & 20,000 #100 mesh.	

TUBING RECORD Size 2-3/8" Set At 4689' Packer At -- Liner Run Yes No

Date of First Production SIWOPL Producing Method Flowing Pumping Gas Lift Other (Explain)

Estimated Production Per 24 Hours (Est. Only)	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	± 10 BOPD	650 MCFD	± 35 BWPD		

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

FORMATION

RELEASED

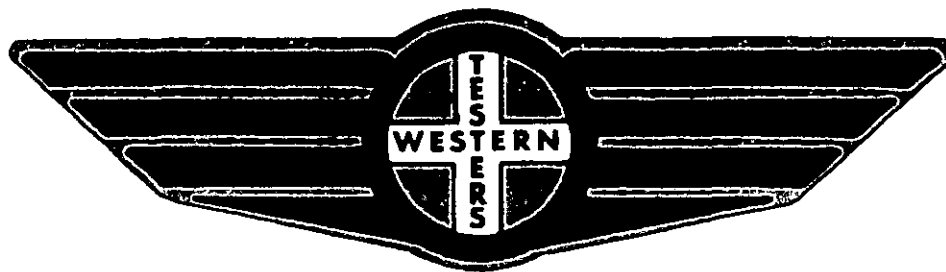
JUL 02 1991

FROM CONFIDENTIAL

TEST

REPORT

TIGHT HOLE



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

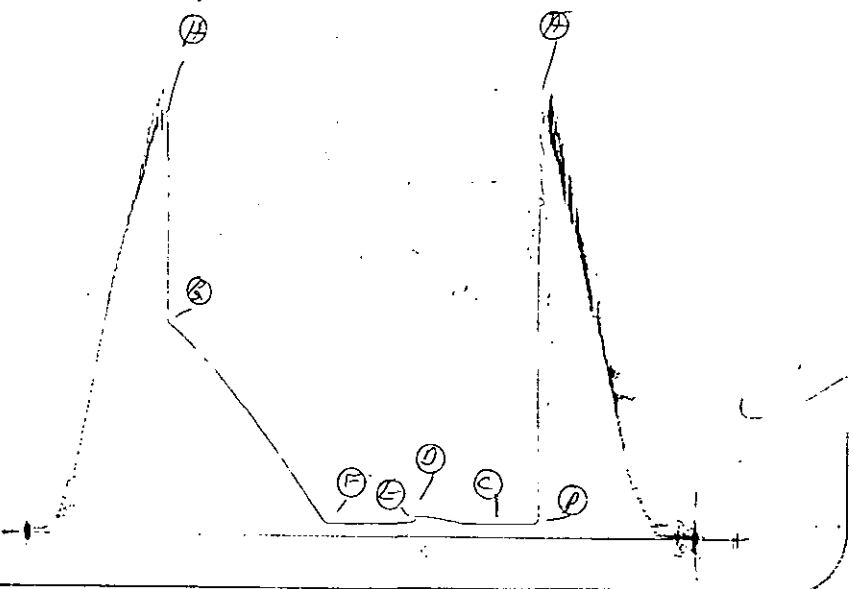
Phone (316) 262-5861

1051-DST #1

A

KT 116015

I

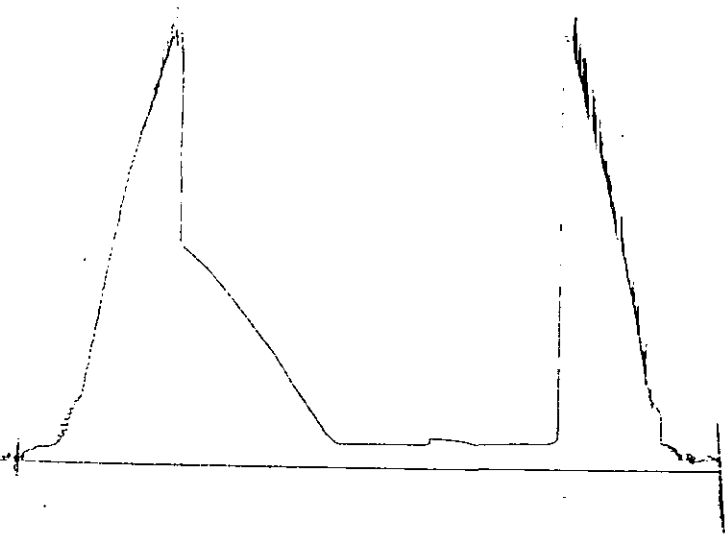


Inside Recorder

4332-DST #1

KT 116015

0



Outside Recorder

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE	: 5-16-90	TICKET	: 16015	Tota
CUSTOMER	: TXO PRODUCTION CORPORATION	LEASE	: CLARKE	Tota
WELL	: K-1 TEST: 1	GEOLOGIST	: VEATCH	Indi
ELEVATION	:	FORMATION	: MISSISSIPPI	
SECTION	: 13	TOWNSHIP	: 34S	REMA
RANGE	: 14W COUNTY : BARBER	STATE	: KANSAS	REMA
GAUGE SN#	: 1051 RANGE : 4250	CLOCK	: 12	REMA

INTERVAL FROM	: 4730	TO	: 4828	TOTAL DEPTH	: 4828	
DEPTH OF SELECTIVE ZONE	:					SET
PACKER DEPTH	: 4725	SIZE	: 6.63			WELL
PACKER DEPTH	: 4730	SIZE	: 6.63			INIT
PACKER DEPTH	:	SIZE	:			INIT
PACKER DEPTH	:	SIZE	:			INIT

DRILLING CON.	: EAGLE DRILLING RIG #1					FINA
MUD TYPE	: CHEMICAL	VISCOSITY	: 45			FINA
WEIGHT	: 9.3	WATER LOSS (CC)	: 9.6			FINA
CHLORIDES (PPM)	: 4000					
JARS-MAKE	: WTC	SERIAL NUMBER	: 401			
DID WELL FLOW ?	: NO	REVERSED OUT ?	: NO			

DRILL COLLAR LENGTH	: 492 FT	I.D. inch	: 2.25
WEIGHT PIPE LENGTH	: 0 FT	I.D. inch	: 0.00
DRILL PIPE LENGTH	: 4207 FT	I.D. inch	: 3.80
TEST TOOL LENGTH	: 31 FT	TOOL SIZE	: 5.50
ANCHOR LENGTH	: 98 FT	ANCHOR SIZE	: 5.50
SURFACE CHOKE SIZE	: .75 IN	BOTTOM CHOKE SIZE	: .75
MAIN HOLE SIZE	: 7.875 IN	TOOL JOINT SIZE	: 4.5XH

BLOW COMMENT #1 : INITIAL FLOW PERIOD WEAK BLOW BUILDING TO
BLOW COMMENT #2 : GOOD BLOW. 6 TO 8 INCH BLOW DURING I.F.P.
BLOW COMMENT #3 : FINAL FLOW PERIOD STRONG BLOW. NO GAS TO SURFACE.
BLOW COMMENT #4 :

RECOVERED : 45 FT OF: SLI. GAS-CUT MUD.

Total Barrels Fluid = 0.22
Total Fluid Prod Rate = 3.35 BFPD
Indicated Wtr Rate = 0.34 BWPD

IPPI

REMARK 1 :
REMARK 2 : 60 FT. GAS ABOVE FLUID
REMARK 3 :
REMARK 4 :

SET PACKER(S) : 12:50 P.M.

TIME STARTED OFF BOTTOM : 5:20 P.M

WELL TEMPERATURE : 127

INITIAL HYDROSTATIC PRESSURE

(A) 2316

INITIAL FLOW PERIOD MIN: 30

(B) 74

PSI TO (C) : 74

INITIAL CLOSED IN PERIOD MIN: 63

(D) 110

FINAL FLOW PERIOD MIN: 65

(E) 74

PSI TO (F) : 74

FINAL CLOSED IN PERIOD MIN: 123

(G) 1154

FINAL HYDROSTATIC PRESSURE

(H) 2302

CE.

2

WESTERN TESTING CO. INC.
WICHITA-KANSAS

Pressure Transient Report

COMPANY
WELL
GAUGE #
DATE

DATA R
No. -----

COMPANY : TXO PRODUCTION CORPORATION
RIG : BARBER-KANSAS
FIELD : CLARKE
WELL : K-1
DATE : 5-16-90
GAUGE NO : 1051

INITI
2
3
4
5
6
7
8

INITI

9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29

FINAL

30
31
32
33
34
35
36
37
38
39
40
41
42
43

FINAL

44
45
46
47
48

OPERATIONAL COMMENTS

60 FT. GAS ABOVE FLUID

COMPANY : TXO PRODUCTION CORPORATION
 WELL : K-1
 GAUGE # : 1051
 DATE : 16/ 5/90

FIELD : CLARKE
 JOB # : 16015
 DEPTH : 4828
 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	12:50: 0	0.000	74.000	127.00	0.000
3	12:54:59	0.083	74.000	127.00	0.000
4	13: 0: 0	0.167	74.000	127.00	0.000
5	13: 5: 0	0.250	74.000	127.00	0.000
6	13: 9:59	0.333	74.000	127.00	0.000
7	13:15: 0	0.417	74.000	127.00	0.000
8	13:20: 0	0.500	74.000	127.00	0.000
INITIAL SHUT-IN PERIOD					
9	13:23: 0	0.550	74.000	127.00	0.000
10	13:26: 0	0.600	74.000	127.00	0.000
11	13:29: 0	0.650	74.000	127.00	0.000
12	13:32: 0	0.700	74.000	127.00	0.000
13	13:35: 0	0.750	74.000	127.00	0.000
14	13:38: 0	0.800	74.000	127.00	0.000
15	13:41: 0	0.850	74.000	127.00	0.000
16	13:44: 0	0.900	74.000	127.00	0.000
17	13:47: 0	0.950	74.000	127.00	0.000
18	13:50: 0	1.000	77.000	127.00	3.000
19	13:53: 0	1.050	86.000	127.00	9.000
20	13:56: 0	1.100	88.000	127.00	2.000
21	13:59: 0	1.150	91.000	127.00	3.000
22	14: 2: 0	1.200	97.000	127.00	6.000
23	14: 5: 0	1.250	102.000	127.00	5.000
24	14: 8: 0	1.300	104.000	127.00	2.000
25	14:11: 0	1.350	106.000	127.00	2.000
26	14:14: 0	1.400	107.000	127.00	1.000
27	14:17: 0	1.450	108.000	127.00	1.000
28	14:20: 0	1.500	109.000	127.00	1.000
29	14:23: 0	1.550	110.000	127.00	1.000
FINAL FLOW PERIOD					
30	14:24: 0	1.567	74.000	127.00	-36.000
31	14:27:59	1.633	74.000	127.00	0.000
32	14:33: 0	1.717	74.000	127.00	0.000
33	14:38: 0	1.800	74.000	127.00	0.000
34	14:42:59	1.883	74.000	127.00	0.000
35	14:48: 0	1.967	74.000	127.00	0.000
36	14:53: 0	2.050	74.000	127.00	0.000
37	14:57:59	2.133	74.000	127.00	0.000
38	15: 3: 0	2.217	74.000	127.00	0.000
39	15: 8: 0	2.300	74.000	127.00	0.000
40	15:12:59	2.383	74.000	127.00	0.000
41	15:18: 0	2.467	74.000	127.00	0.000
42	15:23: 0	2.550	74.000	127.00	0.000
43	15:27:59	2.633	74.000	127.00	0.000
FINAL SHUT-IN PERIOD					
44	15:30:59	2.683	85.000	127.00	11.000
45	15:33:59	2.733	115.000	127.00	30.000
46	15:36:59	2.783	148.000	127.00	33.000
47	15:39:59	2.833	177.000	127.00	29.000
48	15:42:59	2.883	212.000	127.00	35.000

COMPANY : TXO PRODUCTION CORPORATION
 WELL : K-1
 GAUGE # : 1051
 DATE : 16/ 5/90

FIELD : CLARKE
 JOB # : 16015
 DEPTH : 4828
 TEST :

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
49	15:45:59	2.933	245.000	127.00	33.000
50	15:48:59	2.983	278.000	127.00	33.000
51	15:51:59	3.033	307.000	127.00	29.000
52	15:54:59	3.083	344.000	127.00	37.000
53	15:57:59	3.133	375.000	127.00	31.000
54	16: 0:59	3.183	407.000	127.00	32.000
55	16: 3:59	3.233	437.000	127.00	30.000
56	16: 6:59	3.283	470.000	127.00	33.000
57	16: 9:59	3.333	500.000	127.00	30.000
58	16:12:59	3.383	527.000	127.00	27.000
59	16:15:59	3.433	558.000	127.00	31.000
60	16:18:59	3.483	585.000	127.00	27.000
61	16:21:59	3.533	616.000	127.00	31.000
62	16:24:59	3.583	645.000	127.00	29.000
63	16:27:59	3.633	671.000	127.00	26.000
64	16:30:59	3.683	699.000	127.00	28.000
65	16:33:59	3.733	718.000	127.00	19.000
66	16:36:59	3.783	743.000	127.00	25.000
67	16:39:59	3.833	771.000	127.00	28.000
68	16:42:59	3.883	795.000	127.00	24.000
69	16:45:59	3.933	824.000	127.00	29.000
70	16:48:59	3.983	851.000	127.00	27.000
71	16:51:59	4.033	875.000	127.00	24.000
72	16:54:59	4.083	904.000	127.00	29.000
73	16:57:59	4.133	930.000	127.00	26.000
74	17: 0:59	4.183	950.000	127.00	20.000
75	17: 3:59	4.233	970.000	127.00	20.000
76	17: 6:59	4.283	997.000	127.00	27.000
77	17: 9:59	4.333	1015.000	127.00	18.000
78	17:12:59	4.383	1039.000	127.00	24.000
79	17:15:59	4.433	1058.000	127.00	19.000
80	17:18:59	4.483	1079.000	127.00	21.000
81	17:21:59	4.533	1098.000	127.00	19.000
82	17:24:59	4.583	1117.000	127.00	19.000
83	17:27:59	4.633	1135.000	127.00	18.000
84	17:30:59	4.683	1154.000	127.00	19.000

WESTERN TESTING CO. INC.

FLUID SAMPLE REPORT

Date : 5-18-30 Ticket No. : 16015
Company : TXO PRODUCTION CORPORATION
Well Name & No. : CLARKE K-1
DST No. 1
County : BARBER State : KANSAS
Sampler No. : 5 Test Interval : 4730-4828

Pressure in Sampler 257 PSIG BHT 127 Deg F
Total Volume of Sampler : 2450 cc
Total Volume of Sample : 2000 cc
Oil: cc
Water: cc
Mud: 2000 cc
Gas: .7 cu ft
Other: NONE cc

RESISTIVITY

Drilling Mud @ F Chloride Content ppm
Mud Pit Sample @ F Chloride Content ppm
Gas/Oil Ratio Gravity API @ Deg F
Where was sample drained
Remarks:

FORMATION

RELEASE

JUL 02 1991

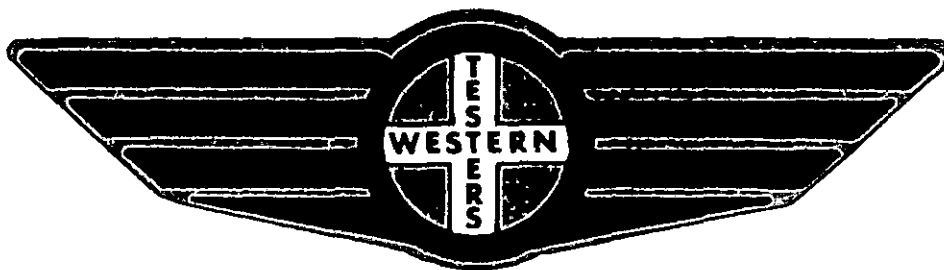
TEST

FROM CONFIDENTIAL

REPORT

TIGHT HOLE

JUL 02 1990



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

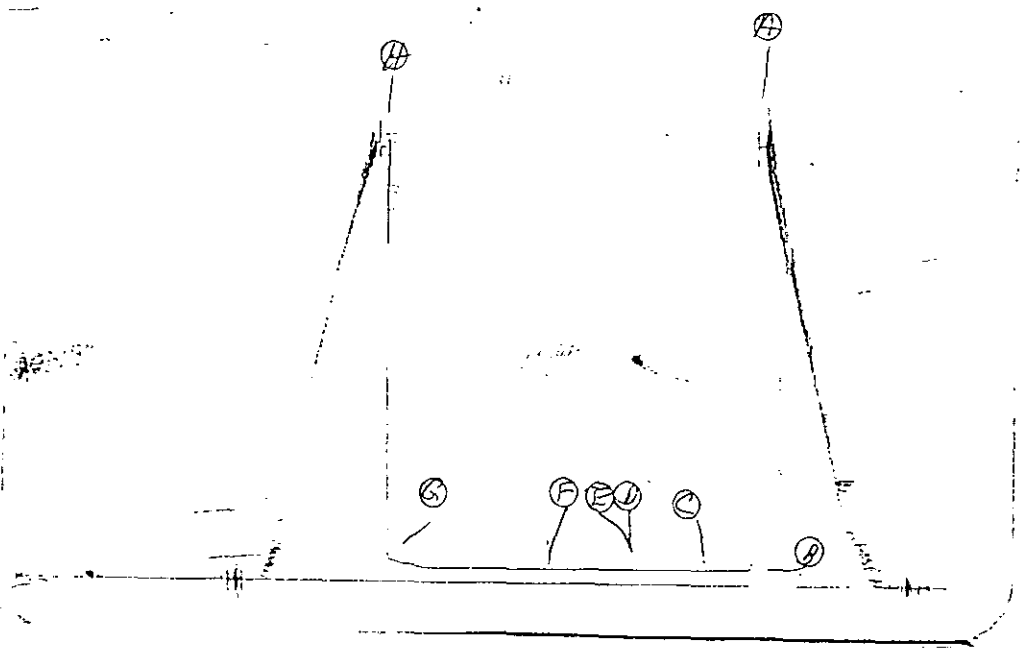
Phone (316) 262-5861

1251 - DST#2



KT 160/6

I

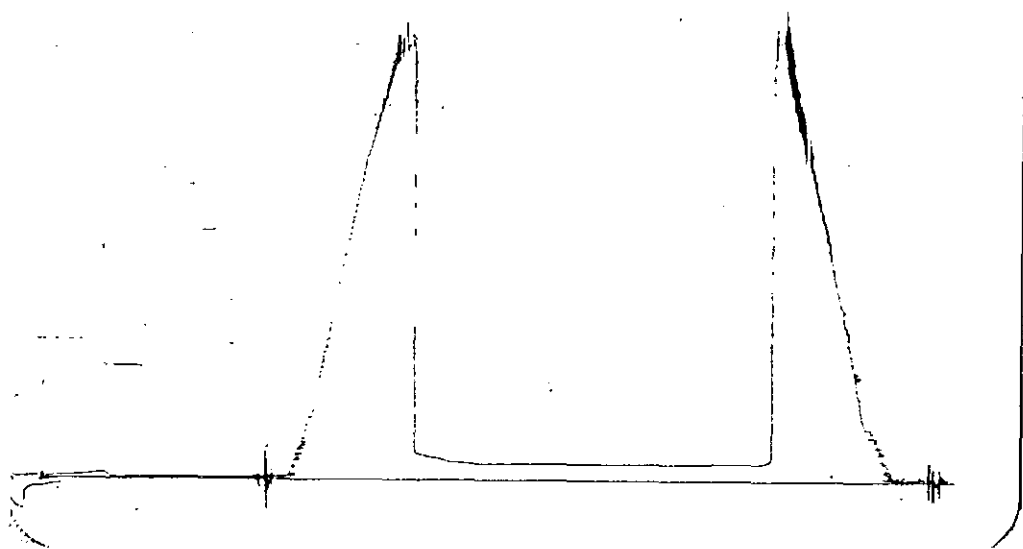


Inside Recorder

4332 - DST#2

KT 160/6

O



Outside Recorder

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE : 5-17-90
CUSTOMER : TXO PRODUCTION CORPORATION
WELL : #1 TEST: 2
ELEVATION :
SECTION : 13
RANGE : 14W COUNTY : BARBER
GAUGE SN# : 1051 RANGE : 4250
TICKET : 16016
LEASE : CLARKE K
GEOLOGIST : VEATCH
FORMATION : MISSISSIPPI
TOWNSHIP : 34S
STATE : KANSAS
CLOCK : 12

INTERVAL FROM : 4866 TO : 4900 TOTAL DEPTH : 4900

DEPTH OF SELECTIVE ZONE :
PACKER DEPTH : 4861 SIZE : 6.63
PACKER DEPTH : 4866 SIZE : 6.63
PACKER DEPTH : SIZE :
PACKER DEPTH : SIZE :

DRILLING CON. : EAGLE DRILLING CO.
MUD TYPE : CHEMICAL VISCOSITY : 48
WEIGHT : 9.3 WATER LOSS (CC) : 9.8
CHLORIDES (PPM) : 6500
JARS-MAKE : WTC SERIAL NUMBER : 401
DID WELL FLOW ? : NO REVERSED OUT ? : NO

DRILL COLLAR LENGTH : 554 FT I.D. inch : 2.25
WEIGHT PIPE LENGTH : 0 FT I.D. inch : 0.00
DRILL PIPE LENGTH : 4282 FT I.D. inch : 3.80
TEST TOOL LENGTH : 28 FT TOOL SIZE : 5.50
ANCHOR LENGTH : 34 FT ANCHOR SIZE : 5.50
SURFACE CHOKE SIZE : .75 IN BOTTOM CHOKE SIZE : .75
MAIN HOLE SIZE : 7.875 IN TOOL JOINT SIZE : 4.5XH

BLOW COMMENT #1 : INITIAL FLOW PERIOD WEAK BLOW-BUILDING TO
BLOW COMMENT #2 : A 6 INCH BLOW.
BLOW COMMENT #3 : FINAL FLOW PERIOD GOOD 6 INCH STEADY BLOW.
BLOW COMMENT #4 :

RECOVERED : 15 FT OF: GAS-CUT MUD

Total Barrels Fluid = 0.07
Total Fluid Prod Rate = 1.18 BFPD
Indicated Wtr Rate = 0.12 BWPD

REMARK 1 :
REMARK 2 : 180 FT. GAS ABOVE FLUID
REMARK 3 :
REMARK 4 :

SET PACKER(S) :	8:50 A.M.	TIME STARTED OFF BOTTOM :	1:20 P.M.
WELL TEMPERATURE :	127		
INITIAL HYDROSTATIC PRESSURE		(A)	2422
INITIAL FLOW PERIOD MIN:	30	(B)	83 PSI TO (C) : 83
INITIAL CLOSED IN PERIOD MIN:	60	(D)	83
FINAL FLOW PERIOD MIN:	60	(E)	83 PSI TO (F) : 83
FINAL CLOSED IN PERIOD MIN:	120	(G)	126
FINAL HYDROSTATIC PRESSURE		(H)	2418

WESTERN TESTING CO. INC.
WICHITA-KANSAS

Pressure Transient Report

COMPANY : TXO PRODUCTION CORPORATION
RIG : BARBER-KANSAS
FIELD : CLARKE K
WELL : #1
DATE : 5-17-90
GAUGE NO : 1051

OPERATIONAL COMMENTS

180 FT. GAS ABOVE FLUID

COMPANY : TXO PRODUCTION CORPORATION
 WELL : #1
 GAUGE # : 1051
 DATE : 17/ 5/90

FIELD : CLARKE K
 JOB # : 16016
 DEPTH : 4900
 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	8:50: 0	0.000	83.000	127.00	0.000
3	8:54:59	0.083	83.000	127.00	0.000
4	9: 0: 0	0.167	83.000	127.00	0.000
5	9: 5: 0	0.250	83.000	127.00	0.000
6	9: 9:59	0.333	83.000	127.00	0.000
7	9:15: 0	0.417	83.000	127.00	0.000
8	9:20: 0	0.500	83.000	127.00	0.000
INITIAL SHUT-IN PERIOD					
9	9:23: 0	0.550	83.000	127.00	0.000
10	9:26: 0	0.600	83.000	127.00	0.000
11	9:29: 0	0.650	83.000	127.00	0.000
12	9:32: 0	0.700	83.000	127.00	0.000
13	9:35: 0	0.750	83.000	127.00	0.000
14	9:38: 0	0.800	83.000	127.00	0.000
15	9:41: 0	0.850	83.000	127.00	0.000
16	9:44: 0	0.900	83.000	127.00	0.000
17	9:47: 0	0.950	83.000	127.00	0.000
18	9:50: 0	1.000	83.000	127.00	0.000
19	9:53: 0	1.050	83.000	127.00	0.000
20	9:56: 0	1.100	83.000	127.00	0.000
21	9:59: 0	1.150	83.000	127.00	0.000
22	10: 2: 0	1.200	83.000	127.00	0.000
23	10: 5: 0	1.250	83.000	127.00	0.000
24	10: 8: 0	1.300	83.000	127.00	0.000
25	10:11: 0	1.350	83.000	127.00	0.000
26	10:14: 0	1.400	83.000	127.00	0.000
27	10:17: 0	1.450	83.000	127.00	0.000
28	10:20: 0	1.500	83.000	127.00	0.000
FINAL FLOW PERIOD					
29	10:21: 0	1.517	83.000	127.00	0.000
30	10:24:59	1.583	83.000	127.00	0.000
31	10:30: 0	1.667	83.000	127.00	0.000
32	10:35: 0	1.750	83.000	127.00	0.000
33	10:39:59	1.833	83.000	127.00	0.000
34	10:45: 0	1.917	83.000	127.00	0.000
35	10:50: 0	2.000	83.000	127.00	0.000
36	10:54:59	2.083	83.000	127.00	0.000
37	11: 0: 0	2.167	83.000	127.00	0.000
38	11: 5: 0	2.250	83.000	127.00	0.000
39	11: 9:59	2.333	83.000	127.00	0.000
40	11:15: 0	2.417	83.000	127.00	0.000
41	11:20: 0	2.500	83.000	127.00	0.000
FINAL SHUT-IN PERIOD					
42	11:23: 0	2.550	83.000	127.00	0.000
43	11:26: 0	2.600	83.000	127.00	0.000
44	11:29: 0	2.650	83.000	127.00	0.000
45	11:32: 0	2.700	83.000	127.00	0.000
46	11:35: 0	2.750	83.000	127.00	0.000
47	11:38: 0	2.800	83.000	127.00	0.000
48	11:41: 0	2.850	83.000	127.00	0.000

COMPANY : TXO PRODUCTION CORPORATION
WELL : #1
GAUGE # : 1051
DATE : 17/ 5/90

FIELD : CLARKE K
JOB # : 16016
DEPTH : 4900
TEST :

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
49	11:44: 0	2.900	83.000	127.00	0.000
50	11:47: 0	2.950	83.000	127.00	0.000
51	11:50: 0	3.000	83.000	127.00	0.000
52	11:53: 0	3.050	83.000	127.00	0.000
53	11:56: 0	3.100	83.000	127.00	0.000
54	11:59: 0	3.150	83.000	127.00	0.000
55	12: 2: 0	3.200	83.000	127.00	0.000
56	12: 5: 0	3.250	83.000	127.00	0.000
57	12: 8: 0	3.300	83.000	127.00	0.000
58	12:11: 0	3.350	83.000	127.00	0.000
59	12:14: 0	3.400	83.000	127.00	0.000
60	12:17: 0	3.450	83.000	127.00	0.000
61	12:20: 0	3.500	83.000	127.00	0.000
62	12:23: 0	3.550	83.000	127.00	0.000
63	12:26: 0	3.600	83.000	127.00	0.000
64	12:29: 0	3.650	83.000	127.00	0.000
65	12:32: 0	3.700	83.000	127.00	0.000
66	12:35: 0	3.750	83.000	127.00	0.000
67	12:38: 0	3.800	83.000	127.00	0.000
68	12:41: 0	3.850	83.000	127.00	0.000
69	12:44: 0	3.900	83.000	127.00	0.000
70	12:47: 0	3.950	83.000	127.00	0.000
71	12:50: 0	4.000	83.000	127.00	0.000
72	12:53: 0	4.050	83.000	127.00	0.000
73	12:56: 0	4.100	88.000	127.00	5.000
74	12:59: 0	4.150	91.000	127.00	3.000
75	13: 2: 0	4.200	97.000	127.00	6.000
76	13: 5: 0	4.250	100.000	127.00	3.000
77	13: 8: 0	4.300	102.000	127.00	2.000
78	13:11: 0	4.350	105.000	127.00	3.000
79	13:14: 0	4.400	113.000	127.00	8.000
80	13:17: 0	4.450	119.000	127.00	6.000
81	13:20: 0	4.500	126.000	127.00	7.000

WESTERN TESTING CO. INC.



SERVICE OPERATIONS CONTRACT CONTINUATION

CONTRACT NO. 610768

DATE OF JOB	MM DD YY	DISTRICT	DIST. NO.	AUTHORIZED BY
01511997		Med. Lodge KS.	3350	GERRELL VEATCH
CUSTOMER				
TXO PRODUCTION CORP.				

PRICE BOOK REF. NO.	QUANTITY	DESCRIPTION	UNIT PRICE	U/M	PRICE EXTENSION
1109101101	200	DRAYAGE 8.0 TON X 25 MT	.70	E	140.00
1108810101	1805	MIXING CHARGE	.95	Q	171.48
11091091610108	1	FLEX-FLOW GUIDE SHOE 4 1/2	310.00	E	310.00
11091091610108	1	LATCH DOWN PLUG W/ RAFFLE 4 1/2	295.00	E	295.00
11091091610108	2	BASKETS 4 1/2	120.00	E	240.00
11091091610108	5	CENTRALIZERS 4 1/2	41.75	E	208.75
					3860.34
					3165.98
TIGHT HOLE					
RELEASED					
JUL 02 1991					
FROM CONFIDENTIAL					

SERVICE REPRESENTATIVE	THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY
<i>Neal Rupp</i>	<i>Gerrell Veatch</i>

CHECK IF CONTINUATION IS USED (WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

CUSTOMER: This is not an invoice - This Service Operations Contract is subject to review and correction by our Accounting Department.



SERVICE OPERATIONS CONTRACT
CONTINUATION

CONTRACT NO. 610773

DATE OF JOB 05/14/90 DISTRICT No. 6000 DIST. NO. 2210 AUTHORIZED BY K.C. [Signature]

CUSTOMER THE TRON [Signature]

PRICE BOOK 07

PRICE BOOK REF. NO.	QUANTITY	DESCRIPTION	UNIT PRICE	U/M	PRICE EXTENSION
10409600	1	3/4" LAMP TUBE - 2	95.25	F	95.25
10409600	2	3/4" TUBE SET	170.00	F	330.00
10409600	1	3/4" CONTRA [unclear]	57.70	F	57.70
		BOOK PRICE			\$ 2121.92
		LESS			572.70
		TOTAL			\$ 2609.07
TIGHT HOLE					
RELEASED					
JUL 02 1991					
FROM CONFIDENTIAL					

SERVICE REPRESENTATIVE [Signature]

THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: [Signature]

CHECK IF CONTINUATION IS USED (WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

CUSTOMER: This is not an invoice - This Service Operations Contract is subject to review and correction by our Accounting Department.

Date S-11-90 District Med. Loose Tric. No. 610778
 Company TKO PROD. CORP. Rm. TABLE 1
 Lease CLARKE Well No. K-1
 County BARBER State KANSAS
 Location 13-345-14a Fr. AETNA
UN. QUAR. W TO D.E., 45, 1 1/2 W TO LOC

CEMENT DATA:
 Spacer Type: S BBLs FRESH H₂O
 Amt. _____ Skys Yield _____ ft³/sk Density _____ Pp

CASING DATA PTA Squeeze
 Surface Intermediate Production Liner
 Size 8 1/8" Type J-55 Weight 24* Co # ST+C

LEAD Pump Time _____ hrs. Type 35:65:6
3% A-7P Excess _____

BURST 2930*
 COLLAPSE -1370*
 Casing Depths Top KB Bottom 407'

Amt 200 Skys Yield 1.58 ft³/sk Density 13.8 Pp
 TAIL Pump Time _____ hrs. Type CLASS A

3% A-7P, 2% GEL Excess _____
 Amt 75 Skys Yield 1.34 ft³/sk Density 15.2 Pp
 WATER Lead 7.8 gals/sk Tail 6.5 gals/sk Total _____ Bbl

Pump Trucks Used 1492 Carry D.
 Bulk Equip. 2904 JOHN K.

Drill Pipe Size 4 1/2" Weight 16.6* Collars XH
 Open Hole Size 12 1/4" TD 1088 ft B to _____ ft

Float Equip. Manufacturer TAHER
 Shoe Type NOTCHED Depth 407

CAPACITY FACTORS

Casing	Bbls/Lin ft	<u>.0637</u>	Lin ft/Bbl	<u>15.7</u>
Open Holes	Bbls/Lin ft	<u>.1458</u>	Lin ft/Bbl	<u>6.85</u>
Drill Pipe	Bbls/Lin ft	<u>.01422</u>	Lin ft/Bbl	<u>70.32</u>
Annulus	Bbls/Lin ft	<u>.0735</u>	Lin ft/Bbl	<u>13.6</u>
	Bbls/Lin ft		Lin ft/Bbl	

Float Type RAFFLE RATE Depth 362
 Centralizers, Quantity _____ Plugs Top RUBBER Btm _____

Stage Collars _____
 Special Equip _____
 Disp. Fluid Type FRESH H₂O Amt. 23 1/4 Bbls. Weight 8.34 Pp
 Mud Type _____ Weight _____ Pp

COMPANY REPRESENTATIVE K.O. STEINERT

CEMENTER KEVIN BRUNGARDT

TIME	PRESSURES PSI		FLUID	DUMP	CEMENT DATA		HOLE	REMARKS
	DRILL PIPE CASING	ANNULUS			TOTAL FLUID	Pump Time		
12:00								ON LOCATION, RIG UP HOLD JOB SAFETY MEETING Run 8 1/8" casing & cement hole
3:10	100							RIG UP TO CEMENT PUMP START FRESH WATER FRESH WATER IN - START LEAD
	200		S	5	8			LEAD IN - START TAIL
	200		61	5.6	7 1/2			TAIL IN - STOP PUMPS
			78	17	7			CHANGE VALVES RELEASE PLUG
	100					S		START DISPLACEMENT
	200		80	2		S		CEMENT CIRCULATES
3:30	400		101	21				BUMP PLUG
								RELEASE
								JUL 02 1991
								FROM CONFIDENTIAL