



WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET N^o 3029

P. O. BOX 1599 PHONE (316) 262-5861
WICHITA, KANSAS 67201

Elevation _____ Formation _____ Eff. Pay _____ Ft.

District Bodge City Date 10-30-83 Customer Order No. _____

COMPANY NAME TXO Prod. Corp.

ADDRESS 200 W. Douglas Wichita, Ks. 67202 Suite #300

LEASE AND WELL NO. #1 Koger COUNTY kiowa STATE Ks. Sec. 1 Twp. 30 Rge. 19W

Mail Invoice To Send invoice: Medicine Lodge office #1 KOGER No. Copies Requested _____

Co. Name _____ Address _____ No. Copies Requested 6

Mail Charts To Send 2 copies: Dallas office Address _____ No. Copies Requested _____

Formation Test No. 1 Interval Tested From 5040 ft. to 5055 ft. Total Depth 5055 ft.

Packer Depth 5035 ft. Size 6 5/8 in. Packer Depth _____ ft. Size _____ in.

Packer Depth 5040 ft. Size 6 5/8 in. Packer Depth _____ ft. Size _____ in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 5043 ft. Recorder Number 1566 Cap. 4360

Bottom Recorder Depth (Outside) 5047 ft. Recorder Number 3086 Cap. 4500

Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____

Drilling Contractor FWA Drill Collar Length 180' I. D. 2.2 in.

Mud Type chem Viscosity 45 Weight Pipe Length _____ I. D. _____ in.

Weight 9.2 Water Loss 18.4 cc. Drill Pipe Length 4830' I. D. 3.2 in.

Chlorides 11,000 P.P.M. Test Tool Length 30' Tool Size 5 1/2 in.

Jars: Make WTC Serial Number 411 Anchor Length 15' Size 5 1/2 in.

Did Well Flow? no Reversed Out no Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.

Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 in.

Blow: STRONG gas-to-surface 14 min off See Flow Chart!

Recovered 70' ft. of dilg mud - 90% mud - 10% ltr.

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Chlorides 17,000 P.P.M. Sample Jars used 2 Remarks: Slid - 10' to Bottom!

Time On Location 5:30 A.M. Time Pick Up Tool 10:00 A.M. Time Off Location 8:00 A.M.

Time Set Packer(s) 12:15 P.M. Time Started Off Bottom 4:00 P.M. Maximum Temperature 125°

Initial Hydrostatic Pressure _____ (A) 2460 P.S.I.

Initial Flow Period _____ Minutes 30 (B) 64 P.S.I. to (C) 108 P.S.I.

Initial Closed In Period _____ Minutes 60 (D) 1452 P.S.I.

Final Flow Period _____ Minutes 45 (E) 270 P.S.I. to (F) 162 P.S.I.

Final Closed In Period _____ Minutes 90 (G) 1560 P.S.I.

Final Hydrostatic Pressure _____ (H) 2438 P.S.I.

COMPANY TERMS

Western Testing Co., Inc. shall not be liable for damages of any kind to the property or personnel of the one for whom a test is made or for any loss suffered or sustained directly or indirectly through the use of its equipment, of its statements or opinion concerning the results of any test. Tools lost or damaged in the hole shall be paid at cost by the party for whom the test is made.

All charges subject to 12% interest after 60 days from date of invoice. Any expense incurred for collection will be added to the original amount.

Test Approved By Charlie Hammond
Signature of Customer or his authorized representative

Western Representative Mike Rogers Thank You!

FIELD INVOICE

Open Hole Test \$ 4650.00
Misrun \$ _____
Straddle Test \$ _____
Jars \$ 300.00
Selective Zone \$ _____
Safety Joint \$ 65.00
Standby \$ _____
Evaluation \$ _____
Extra Packer \$ _____
Circ. Sub. \$ _____
Mileage \$ _____
Fluid Sampler \$ _____
Extra Charts \$ _____
Insurance \$ _____
Telecopier \$ _____
TOTAL \$ 1015.00



No 3688

GAS FLOW REPORT

Date 10-31-83 Ticket 3029 Company TXO Prod. Co.
 Well Name and No. Koger #1 Dst No. 1 Interval Tested 5040-5055
 County KIOWA State Ks. Sec. 1 Twp. 30 Rg. 19

Time Gauge in Min.	P.S.I. on Merla Orifice Well Tester	Size of Orifice	P.S.I. on Pitot Tester	P.S.I. on Side Static Tester	Description of Flow
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PRE FLOW

					G-T-S-14min.
15	2	3/4			108 MCFD
20	2	11			108 MCFD
25	2.5	11			121 MCFD
30	2.5	11			121 MCFD

SECOND FLOW

5	4	3/4			156 MCFD
10	8	1/2			101 MCFD
20	13	1/2			134 MCFD
30	19	1/2			171 MCFD
40	20	1/2			177 MCFD
45	20	1/2			177 MCFD

GAS BOTTLE

Serial No. H-05 Date Bottle Filled 10-31-83 Date to be Invoiced _____

Requisition and Provisions for high pressure stainless steel gas bottles. Western Testing Co., Inc. shall not be liable for damage of any kind to property or personnel of the one whom gas bottle is filled or for any loss suffered or sustained directly or indirectly through the use of these bottles. By signing of this ticket showing receipt of a gas testing bottle, the undersigned agrees for himself and as agent for operator, to return this bottle to Western Testing Co., Inc. within thirty (30) days free of charge, or be invoiced in the amount of \$75.00 (total charge). Should valve or seal plug be missing or damaged beyond repair, operator shall be invoiced for repairs at our invoiced price.

All charges subject to 1 1/2% per month, equal to 18% interest per annum after 30 days from date of invoice. Any expense incurred for collection will be added to the original amount.

COMPANY'S NAME TXOAuthorized by Charles Hammond

WESTERN TESTING CO., INC.

Pressure Data

Date: 10-30-82 Test Ticket No. 3029
 Recorder No. 15600 Capacity _____ Location _____ Ft.
 Clock No. _____ Elevation _____ Well Temperature _____ °F

Point	Pressure	Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2477</u> P.S.I.		M
B First Initial Flow Pressure	<u>73</u> P.S.I.		Mins. _____ Mins.
C First Final Flow Pressure	<u>124</u> P.S.I.		Mins. _____ Mins.
D Initial Closed-in Pressure	<u>1458</u> P.S.I.		Mins. _____ Mins.
E Second Initial Flow Pressure	<u>258</u> P.S.I.		Mins. _____ Mins.
F Second Final Flow Pressure	<u>168</u> P.S.I.		Mins. _____ Mins.
G Final Closed-in Pressure	<u>1563</u> P.S.I.		
H Final Hydrostatic Mud	<u>2447</u> P.S.I.		

** plugger action*

PRESSURE BREAKDOWN

First Flow Pressure
 Breakdown: 7 Inc.
 of 5 mins. and a
 final inc. of 0 Min.

Initial Shut-In
 Breakdown: 22 Inc.
 of 3 mins. and a
 final inc. of 0 Min.

Second Flow Pressure
 Breakdown: 10 Inc.
 of 5 mins. and a
 final inc. of 0 Min.

Final Shut-In
 Breakdown: 35 Inc.
 of 3 mins. and a
 final inc. of 0 Min.

Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 0	<u>73</u>	0	<u>124</u>	0	<u>258</u>	0	<u>168</u>
P 2 5	<u>72</u>	3	<u>1111</u>	5	<u>258</u>	3	<u>1237</u>
P 3 10	<u>168</u>	6	<u>1330</u>	10	<u>268</u>	6	<u>1476</u>
P 4 15	<u>132</u>	9	<u>1397</u>	15	<u>255</u>	9	<u>1517</u>
P 5 20	<u>97</u>	12	<u>1420</u>	20	<u>121</u>	12	<u>1534</u>
P 6 25	<u>137</u>	15	<u>1436</u>	25	<u>102</u>	15	<u>1544</u>
P 7 30	<u>124</u>	18	<u>1444</u>	30	<u>100</u>	18	<u>1550</u>
P 8 35		21	<u>1447</u>	35	<u>106</u>	21	<u>1554</u>
P 9 40		24	<u>1449</u>	40	<u>160</u>	24	<u>1556</u>
P10 45		27	<u>1451</u>	45	<u>168</u>	27	<u>1557</u>
P11 50		30	<u>1453</u>	50		30	<u>1558</u>
P12 55		33	<u>1454</u>	55		33	<u>1558</u>
P13 60		36	<u>1455</u>	60		36	<u>1558</u>
P14		39	<u>1456</u>	65		39	<u>1559</u>
P15		42	<u>1457</u>	70		42	<u>1559</u>
P16		45	<u>1458</u>	75		45	<u>1559</u>
P17		48	<u>1458</u>	80		48	<u>1560</u>
P18		51	<u>1458</u>	85		51	<u>1560</u>
P19		54	<u>1458</u>	90		54	<u>1560</u>
P20		57	<u>1458</u>			57	<u>1560</u>
		60	<u>1458</u>			60	<u>1561</u>

63 1458

WESTERN TESTING CO., INC.

Pressure Data

Date: _____ Test Ticket No. _____

Recorder No. _____ Capacity _____ Location _____ Ft.

Clock No. _____ Elevation _____ Well Temperature _____ °F

Point	Pressure	Time Given	Time Computed
A Initial Hydrostatic Mud _____ P.S.I.			M _____
B First Initial Flow Pressure _____ P.S.I.			Mins. _____ Mins.
C First Final Flow Pressure _____ P.S.I.			Mins. _____ Mins.
D Initial Closed-in Pressure _____ P.S.I.			Mins. _____ Mins.
E Second Initial Flow Pressure _____ P.S.I.			Mins. _____ Mins.
F Second Final Flow Pressure _____ P.S.I.			
G Final Closed-in Pressure _____ P.S.I.			
H Final Hydrostatic Mud _____ P.S.I.			

PRESSURE BREAKDOWN

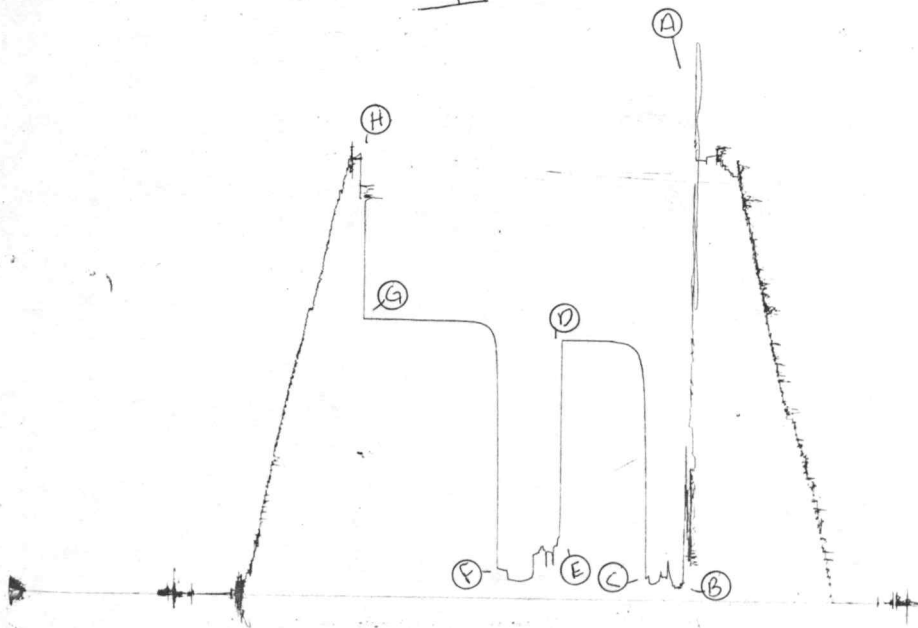
First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: _____ Inc.		Breakdown: _____ Inc.		Breakdown: _____ Inc.		Breakdown: _____ Inc.	
of 5 mins. and a		of 3 mins. and a		of 5 mins. and a		of 3 mins. and a	
final inc. of 0 Min.		final inc. of 0 Min.		final inc. of 0 Min.		final inc. of 0 Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 _____	_____	63 _____	_____	_____	_____	63 _____	1561
P 2 _____	_____	66 _____	_____	_____	_____	66 _____	1561
P 3 _____	_____	69 _____	_____	_____	_____	69 _____	1561
P 4 _____	_____	72 _____	_____	_____	_____	72 _____	1562
P 5 _____	_____	75 _____	_____	_____	_____	75 _____	1562
P 6 _____	_____	78 _____	_____	_____	_____	78 _____	1562
P 7 _____	_____	81 _____	_____	_____	_____	81 _____	1562
P 8 _____	_____	84 _____	_____	_____	_____	84 _____	1562
P 9 _____	_____	87 _____	_____	_____	_____	87 _____	1563
P10 _____	_____	90 _____	_____	_____	_____	90 _____	1563
P11 _____	_____	93 _____	_____	_____	_____	93 _____	1563
P12 _____	_____	96 _____	_____	_____	_____	96 _____	1563
P13 _____	_____	99 _____	_____	_____	_____	99 _____	1563
P14 _____	_____	102 _____	_____	_____	_____	102 _____	1562
P15 _____	_____	105 _____	_____	_____	_____	105 _____	_____
P16 _____	_____	108 _____	_____	_____	_____	108 _____	_____
P17 _____	_____	111 _____	_____	_____	_____	111 _____	_____
P18 _____	_____	114 _____	_____	_____	_____	114 _____	_____
P19 _____	_____	117 _____	_____	_____	_____	117 _____	_____
P20 _____	_____	120 _____	_____	_____	_____	120 _____	_____

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TK[#] 3029

1566

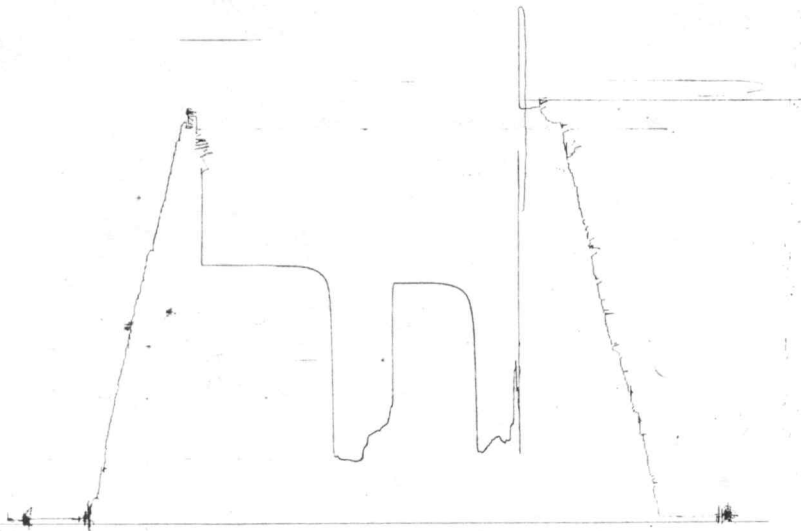
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tek # 3029

3080



WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE: 10/30/83
CUSTOMER: TXO PRODUCTION CORP.
WELL: 1
ELEVATION (KB): 0
SECTION: 1
RANGE: 19W
GAUGE SN #1566

TEST: 1

FORMATION:
TOWNSHIP: 30S

COUNTY: KIOWA
RANGE: 4300

TICKET #3029
LEASE: KOGER
GEOLOGIST: C. HAMMONS
STATE: KANSAS
CLOCK: 12

INTERVAL TEST FROM: 5040 FT TO: 5055 FT TOTAL DEPTH: 5055 FT
DEPTH OF SELECTIVE ZONE:
PACKER DEPTH: 5035 FT SIZE: 6 5/8 IN PACKER DEPTH: 5040 FT SIZE: 6 5/8 IN
PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: FWA
MUD TYPE: CHEM
WEIGHT: 9.2

VISCOSITY: 45
WATER LOSS (CC): 18.4

CHLORIDES (P.P.M.): 11000
JARS - MAKE: W.T.C.

SERIAL NUMBER: 411
REVERSED OUT? NO

DID WELL FLOW? NO

DRILL COLLAR LENGTH: 180 FT
WEIGHT PIPE LENGTH: FT
DRILL PIPE LENGTH: 4830 FT
TEST TOOL LENGTH: 30 FT
ANCHOR LENGTH: 15 FT
SURFACE CHOKE SIZE: 3/4 IN
MAIN HOLE SIZE: 7 7/8 IN

I.D.: 2.2 IN
I.D.: IN
I.D.: 3.2 IN
TOOL SIZE: 5 1/2 O.D. IN
SIZE: 5 1/2 O.D. IN
BOTTOM CHOKE SIZE: 3/4 IN
TOOL JOINT SIZE: 4 1/2 XH IN

BLOW: STRONG BLOW - GAS TO SURFACE IN
14 MINUTES.

RECOVERED: 70	FT	OF: DRLG MUD; 90% MUD; 10% WATER.
RECOVERED:	FT	OF: CHLORIDES 17000 P.P.M.
RECOVERED:	FT	OF:
RECOVERED:	FT	OF:
RECOVERED:	FT	OF:
RECOVERED:	FT	OF:
RECOVERED:	FT	OF:
RECOVERED:	FT	OF:
RECOVERED:	FT	OF:

REMARKS: SLID 10' TO BOTTOM.

TIME SET PACKER(S): 12:15 P.M.
WELL TEMPERATURE: 125 'F
INITIAL HYDROSTATIC PRESSURE:
INITIAL FLOW PERIOD MIN: 30
INITIAL CLOSED IN PERIOD MIN: 63
FINAL FLOW PERIOD MIN: 45
FINAL CLOSED IN PERIOD MIN: 102
FINAL HYDROSTATIC PRESSURE

TIME STARTED OFF BOTTOM: 4:00 A.M.

(A) 2477	PSI		
(B) 73	PSI TO (C) 124	PSI	
(D) 1458	PSI		
(E) 258	PSI TO (F) 168	PSI	
(G) 1563	PSI		
(H) 2447	PSI		

WESTERN TESTING CO. INC.
PRESSURE DATA

DATE: 10/30/83
CUSTOMER: TXO PRO
WELL: 1
ELEVATION (KB): 0
SECTION: 1

RANGE: 19W
GAUGE SN #1566

TEST: 1

COUNTY: KIOWA
RANGE: 4300

TICKET #3029
LEASE: KOGER
GEOLOGIST: C. HAMMONS

FORMATION:
TOWNSHIP: 30S

STATE: KANSAS
CLOCK: 12

(A)	INITIAL HYDROSTATIC PRESSURE:	2477	PSI
(B)	FIRST INITIAL FLOW PRESSURE:	73	PSI
(C)	FIRST FINAL FLOW PRESSURE:	124	PSI
(D)	INITIAL CLOSED-IN PRESSURE:	1458	PSI
(E)	SECOND INITIAL FLOW PRESSURE:	258	PSI
(F)	SECOND FINAL FLOW PRESSURE:	168	PSI
(G)	FINAL CLOSED-IN PRESSURE:	1563	PSI
(H)	FINAL HYDROSTATIC PRESSURE:	2447	PSI
	WELL TEMPERATURE:	125	'F
OPEN TOOL: 12:15 A.M.			

	TIME - GIVEN	TIME - ACTUAL
FIRST FLOW PRESSURE:	30 MIN	30 MIN
INITIAL CLOSED-IN PRESSURE:	60 MIN	63 MIN
SECOND FLOW PRESSURE:	45 MIN	45 MIN
FINAL CLOSED-IN PRESSURE:	90 MIN	102 MIN

PRESSURE BREAKDOWN

[illegible]

PRESSURE BREAKDOWN - CONT. TICKET #3029

PT	FIRST FLOW		INITIAL SHUT-IN		SECOND FLOW		FINAL SHUT-IN	
	MIN	PRESSURE	MIN	PRESSURE	MIN	PRESSURE	MIN	PRESSURE
31							90	1563
32							93	1563
33							96	1563
34							99	1563
35							102	1563
36								
37								
38								
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WESTERN TESTING CO. INC.
GAS FLOW REPORT

DATE: 10/30/83
CUSTOMER: TXO PRODUCTION CORP.
WELL: 1
ELEVATION (KB): 0
SECTION: 1
RANGE: 19W
GAUGE SN #1566

TEST: 1

FORMATION:
TOWNSHIP: 30S

COUNTY: KIDWA
RANGE: 4300

TICKET #3029
LEASE: KOGER
GEOLOGIST: C. HAMMONS
STATE: KANSAS
CLOCK: 12

TIME GAUGE (MIN)	TESTER TYPE	ORIFICE SIZE	PRESSURE (PSI)	FLOW DESCRIPTION
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PRE FLOW

14				GAS TO SURFACE IN 14 MINUTES.
15	MERLA	3/4	2" PSIG	108000 CFPD
20		3/4	2" PSIG	108000 " "
25		3/4	2.5 PSIG	121000 " "
30		3/4	2.5 PSIG	121000 " "

SECOND FLOW

5	MERLA	3/4	4" PSIG	156000 CFPD
10		1/2	8" PSIG	101000 " "
20		1/2	13" PSIG	134000 " "
30		1/2	19" PSIG	171000 " "
40		1/2	20" PSIG	177000 " "
45		1/2	20" PSIG	177000 " "

GAS BOTTLE SN #: H-05
DATE BOTTLE FILLED: 10/31/83
DATE TO BE INVOICED: