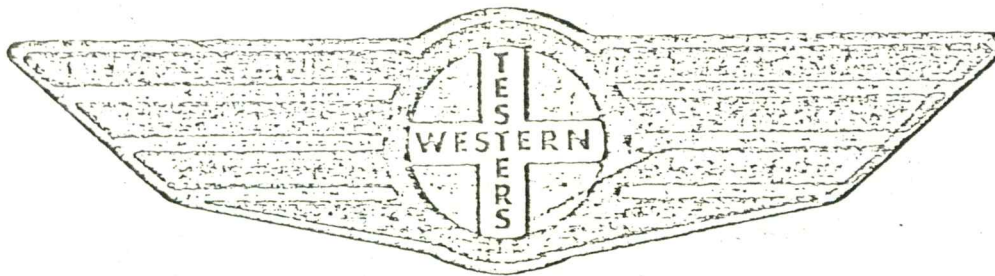


FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

WESTERN TESTING COMPANY INC.
SUBSURFACE PRESSURE SURVEY

DATE: 11/19/84
CUSTOMER: T.X.O. PRODUCTION CORP.
WELL: 4 TEST: 1
ELEVATION (KB): 2299 FORMATION: LANSING
SECTION: 18 TOWNSHIP: 29S
RANGE: 18W COUNTY: KIOWA STATE: KS
GAUGE SN #13552 RANGE: 4050 CLOCK: 12

INTERVAL TEST FROM: 4420 FT TO: 4440 FT TOTAL DEPTH: 4440 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 4415 FT SIZE: 6 5/8 IN PACKER DEPTH: 4420 FT SIZE: 6 5/8 IN
PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: FREEMAN
MUD TYPE: PREMIX VISCOSITY: 48
WEIGHT: 9.1 WATER LOSS (CC): 10.6
CHLORIDES (P.P.M.): 6500
JARS - MAKE: WTC SERIAL NUMBER: 405
DID WELL FLOW? NO REVERSED OUT? NO
DRILL COLLAR LENGTH: 585 FT I.D.: 2 1/4 IN
WEIGHT PIPE LENGTH: FT I.D.: IN
DRILL PIPE LENGTH: 3806 FT I.D.: 3.8 IN
TEST TOOL LENGTH: 29 FT TOOL SIZE: 5 1/2 OD IN
ANCHOR LENGTH: 20 FT SIZE: 5 1/2 OD IN
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 XH IN

BLOW: INITIAL FLOW PERIOD STRONG BLOW
FINAL FLOW PERIOD STRONG BLOW

RECOVERED: 40	FT	OF: DRLG MUD
RECOVERED: 120	FT	OF: MUDDY WATER
RECOVERED: 600	FT	OF: GASSY SALTWATER
RECOVERED:	FT	OF:
RECOVERED:	FT	OF:
RECOVERED:	FT	OF:
RECOVERED:	FT	OF:
RECOVERED:	FT	OF:
RECOVERED:	FT	OF:

REMARKS: CHLORIDES 100000 P.P.M.

TIME SET PACKER(S): 12:30 AM	TIME STARTED OFF BOTTOM: 4:15 AM
WELL TEMPERATURE: 124 °F	
INITIAL HYDROSTATIC PRESSURE:	(A) 2188 PSI
INITIAL FLOW PERIOD MIN: 30	(B) 109 PSI TO (C) 239 PSI
INITIAL CLOSED IN PERIOD MIN: 60	(D) 1462 PSI
FINAL FLOW PERIOD MIN: 45	(E) 318 PSI TO (F) 393 PSI
FINAL CLOSED IN PERIOD MIN: 96	(G) 1463 PSI
FINAL HYDROSTATIC PRESSURE	(H) 2142 PSI

WESTERN TESTING COMPANY INC.
PRESSURE DATA

TICKET #7433

LEASE: UNRUH-GREY

TEST: 1

GEOLOGIST: CRAVENS

FORMATION: LANSING

TOWNSHIP: 29S

COUNTY: KIOWA

STATE: KS

RANGE: 4050

CLOCK: 12

(B) FIRST INITIAL FLOW PRESSURE: 109 PSI

(C) FIRST FINAL FLOW PRESSURE: 239 PSI

(D) INITIAL CLOSED-IN PRESSURE: 1462 PSI

(E) SECOND INITIAL FLOW PRESSURE: 318 PSI

(F) SECOND FINAL FLOW PRESSURE: 393 PSI

(G) FINAL CLOSED-IN PRESSURE: 1463 PSI

(H) FINAL HYDROSTATIC PRESSURE: 2142 PSI

WELL TEMPERATURE: 124 °F

OPEN TOOL: 12:30 AM

	TIME - GIVEN	TIME - ACTUAL
FIRST FLOW PRESSURE:	30 MIN	30 MIN

INITIAL CLOSED-IN PRESSURE: 60 MIN 60 MIN

SECOND FLOW PRESSURE: 45 MIN 45 MIN

FINAL CLOSED-IN PRESSURE: 90 MIN 96 MIN

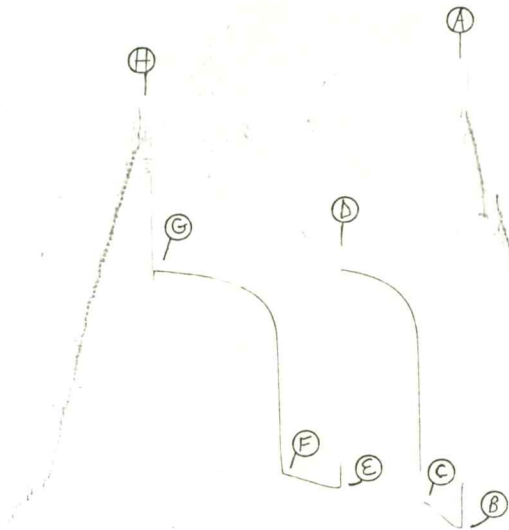
PRESSURE BREAKDOWN

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TKT # 74.33

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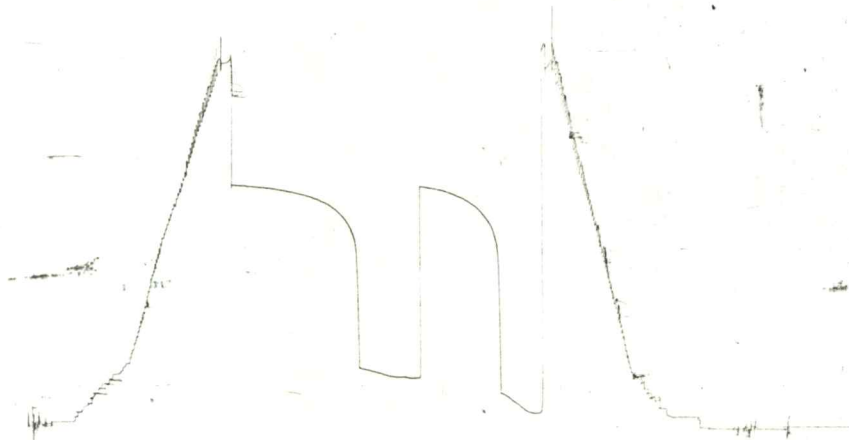
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DST #1

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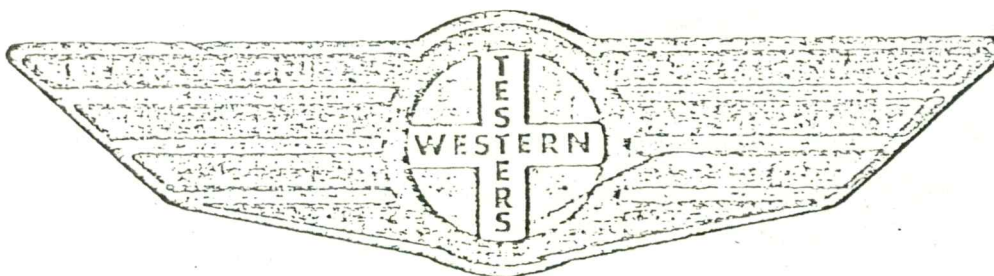
TKT # 7433



DS#1

P1

FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

Company TXO PRODUCTION CORPORATION Lease and Well No. #4UNRUH-GREY Sec. 10 Twp. 29S Rge. 10W Test No. 2 Date 11/20/5

WESTERN TESTING COMPANY INC.
SUBSURFACE PRESSURE SURVEY

DATE: 11/20/84
CUSTOMER: T.X.O. PRODUCTION CORP.
WELL: 4 TEST: 2
ELEVATION (KB): 2304 FORMATION: LANSING
SECTION: 18 TOWNSHIP: 29S
RANGE: 18W COUNTY: KIOWA STATE: KS
GAUGE SN #13552 RANGE: 4050 CLOCK: 12

INTERVAL TEST FROM: 4463 FT TO: 4515 FT TOTAL DEPTH: 4515 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 4458 FT SIZE: 6 5/8 IN PACKER DEPTH: 4463 FT SIZE: 6 5/8 IN
PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: FREEMAN
MUD TYPE: PREMIX VISCOSITY: 40
WEIGHT: 9.1 WATER LOSS (CC): 10.4
CHLORIDES (P.P.M.): 10000
JARS - MAKE: WTC SERIAL NUMBER: 405
DID WELL FLOW? YES REVERSED OUT? NO
DRILL COLLAR LENGTH: 555 FT I.D.: 2 1/4 IN
WEIGHT PIPE LENGTH: FT I.D.: IN
DRILL PIPE LENGTH: 3879 FT I.D.: 3.8 IN
TEST TOOL LENGTH: 29 FT TOOL SIZE: 5 1/2 OD IN
ANCHOR LENGTH: 52 FT SIZE: 5 1/2 OD IN
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 FH IN

BLOW: INITIAL FLOW PERIOD STRONG BLOW GAS TO
SURFACE IN 3 MINUTES
FINAL FLOW PERIOD STRONG BLOW

RECOVERED: 190	FT	OF: GAS CUT MUD
RECOVERED: 120	FT	OF: MUDDY WATER
RECOVERED: 420	FT	OF: SALTWATER
RECOVERED:	FT	OF:
RECOVERED:	FT	OF:
RECOVERED:	FT	OF:
RECOVERED:	FT	OF:
RECOVERED:	FT	OF:
RECOVERED:	FT	OF:

REMARKS: CHLORIDES 104000 P.P.M.

TIME SET PACKER(S): 11:50 PM	TIME STARTED OFF BOTTOM: 3:35 AM
WELL TEMPERATURE: 125 °F	
INITIAL HYDROSTATIC PRESSURE:	(A) 2148 PSI
INITIAL FLOW PERIOD MIN: 30	(B) 172 PSI TO (C) 199 PSI
INITIAL CLOSED IN PERIOD MIN: 60	(D) 1548 PSI
FINAL FLOW PERIOD MIN: 45	(E) 220 PSI TO (F) 259 PSI
FINAL CLOSED IN PERIOD MIN: 90	(G) 1542 PSI
FINAL HYDROSTATIC PRESSURE	(H) 2148 PSI

WESTERN TESTING COMPANY INC.

PRESSURE DATA

DATE: 11/20/84

CUSTOMER: T.X.O. PRODUCTION CORP.

TEST: 2

FORMATION: LANSING

TOWNSHIP: 29S

COUNTY: KIDWA

RANGE: 4050

TICKET #7434

LEASE: UNRUH-GREY

GEOLOGIST: CRAVENS

(A) INITIAL HYDROSTATIC PRESSURE: 2148 PSI

(B) FIRST INITIAL FLOW PRESSURE: 172 PSI

(C) FIRST FINAL FLOW PRESSURE: 199 PSI

(D) INITIAL CLOSED-IN PRESSURE: 1548 PSI

(E) SECOND INITIAL FLOW PRESSURE: 220 PSI

(F) SECOND FINAL FLOW PRESSURE: 259 PSI

(G) FINAL CLOSED-IN PRESSURE: 1542 PSI

(H) FINAL HYDROSTATIC PRESSURE: 2148 PSI

WELL TEMPERATURE: 125 °F

OPEN TOOL: 11:50 PM

TIME - GIVEN TIME - ACTUAL

FIRST FLOW PRESSURE: 30 MIN 30 MIN

INITIAL CLOSED-IN PRESSURE: 60 MIN 60 MIN

SECOND FLOW PRESSURE: 45 MIN 45 MIN

FINAL CLOSED-IN PRESSURE: 90 MIN 90 MIN

PRESSURE BREAKDOWN

[illegible]

WESTERN TESTING COMPANY INC.
GAS FLOW REPORT

DATE: 11/20/84

CUSTOMER: T.X.O. PRODUCTION CORP.

WELL: 4

TEST: 2

ELEVATION (KB): 2304

FORMATION: LANSING

SECTION: 18

TOWNSHIP: 29S

RANGE: 18W

COUNTY: KIOWA

STATE: KS

GAUGE SN #13552

RANGE: 4050

CLOCK: 12

TICKET #7434

LEASE: UNRUH-GREY

GEOLOGIST: CRAVENS

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

5	MERLA	1 1/2"	30 WTR	381000 CFPD
10	"	"	40 "	440000 " "
20	"	"	48 "	482000 " "
30	"	"	"	"

SECOND FLOW

5	MERLA	1 1/2"	52 WTR	502000 CFPD
15	"	"	58 "	530000 " "
25	"	"	56	521000 " "
35	"	"	54 "	511000 " "
45	"	"	"	"

GAS BOTTLE SN #:

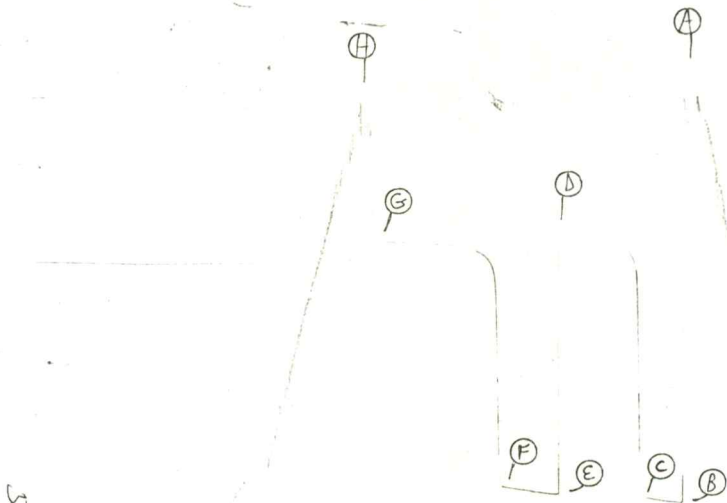
DATE BOTTLE FILLED:

DATE TO BE INVOICED:

TKT # 7434

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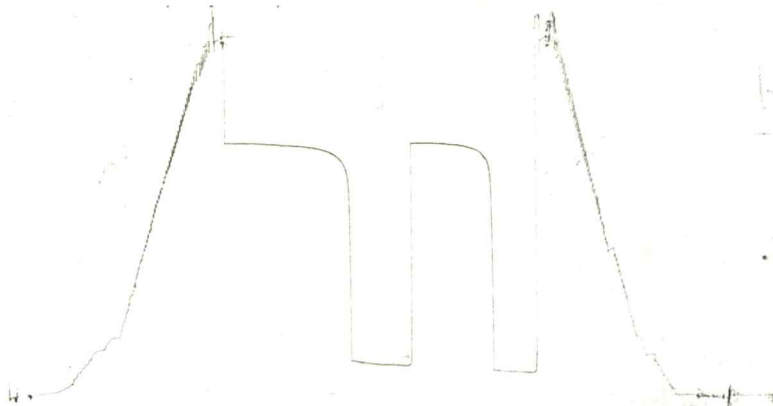


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TKT # 7434

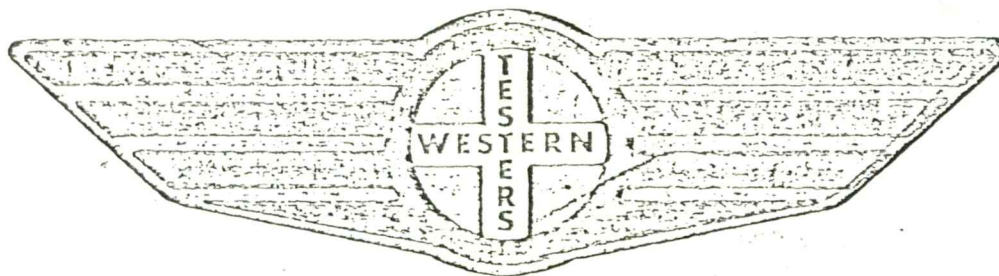
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FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

WESTERN TESTING COMPANY INC.
SUBSURFACE PRESSURE SURVEY

DATE: 11/21/84
CUSTOMER: T.X.O. PRODUCTION CORP.
WELL: 4 TEST: 3
ELEVATION (KB): 2304 FORMATION: DENNIS
SECTION: 18 TOWNSHIP: 29S
RANGE: 18W COUNTY: KIOWA STATE: KS
GAUGE SN #13552 RANGE: 4050 CLOCK: 12

INTERVAL TEST FROM: 4634 FT TO: 4655 FT TOTAL DEPTH: 4655 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 4629 FT SIZE: 6 5/8 IN PAKER DEPTH: 4634 FT SIZE: 6 5/8 IN
PACKER DEPTH: FT SIZE: IN PAKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: FREEMAN
MUD TYPE: PREMIX VISCOSITY: 65
WEIGHT: 9.2 WATER LOSS (CC): 10.8
CHLORIDES (P.P.M.): 12000
JARS - MAKE: WTC SERIAL NUMBER: 405
DID WELL FLOW? NO REVERSED OUT? NO
DRILL COLLAR LENGTH: 585 FT I.D.: 2 1/4 IN
WEIGHT PIPE LENGTH: FT I.D.: IN
DRILL PIPE LENGTH: 4020 FT I.D.: 3.8 IN
TEST TOOL LENGTH: 29 FT TOOL SIZE: 5 1/2 OD IN
ANCHOR LENGTH: 21 FT SIZE: 5 1/2 OD IN
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 FH IN

BLOW: INITIAL FLOW PERIOD WEAK INCREASED TO STRONG
BLOW
FINAL FLOW PERIOD STRONG BLOW

RECOVERED: 70	FT	OF: SLIGHTLY OIL & GAS CUT MUD (5% OIL)
RECOVERED:	FT	OF:
RECOVERED:	FT	OF:
RECOVERED:	FT	OF:
RECOVERED:	FT	OF:
RECOVERED:	FT	OF:
RECOVERED:	FT	OF:
RECOVERED:	FT	OF:
RECOVERED:	FT	OF:

REMARKS:

TIME SET PACKER(S): 1:25 AM	TIME STARTED OFF BOTTOM: 5:10 AM
WELL TEMPERATURE: 126 °F	
INITIAL HYDROSTATIC PRESSURE:	(A) 2241 PSI
INITIAL FLOW PERIOD MIN: 30	(B) 47 PSI TO (C) 48 PSI
INITIAL CLOSED IN PERIOD MIN: 60	(D) 745 PSI
FINAL FLOW PERIOD MIN: 40	(E) 60 PSI TO (F) 65 PSI
FINAL CLOSED IN PERIOD MIN: 96	(G) 836 PSI
FINAL HYDROSTATIC PRESSURE	(H) 2202 PSI

WESTERN TESTING COMPANY INC.
PRESSURE DATA

DATE: 11/21/84

CUSTOMER: T.X.O. PRODUCTION CORP.

TEST: 3

FORMATION: DENNIS

TOWNSHIP: 29S

COUNTY: KIOWA

STATE: KS

RANGE: 4050

CLOCK: 12

(A) INITIAL HYDROSTATIC PRESSURE: 2241 PSI

(B) FIRST INITIAL FLOW PRESSURE: 47 PSI

(C) FIRST FINAL FLOW PRESSURE: 48 PSI

(D) INITIAL CLOSED-IN PRESSURE: 745 PSI

(E) SECOND INITIAL FLOW PRESSURE: 60 PSI

(F) SECOND FINAL FLOW PRESSURE: 65 PSI

(G) FINAL CLOSED-IN PRESSURE: 836 PSI

(H) FINAL HYDROSTATIC PRESSURE: 2202 PSI

WELL TEMPERATURE: 126 °F

OPEN TOOL: 1:25 AM

	TIME - GIVEN	TIME - ACTUAL
FIRST FLOW PRESSURE:	30 MIN	30 MIN

INITIAL CLOSED-IN PRESSURE: 60 MIN 60 MIN

SECOND FLOW PRESSURE: 45 MIN 40 MIN

FINAL CLOSED-IN PRESSURE: 90 MIN 96 MIN

PRESSURE BREAKDOWN

[illegible]

PRESSURE BREAKDOWN - CONT. - TICKET #7435

PT	FIRST FLOW		INITIAL SHUT-IN		SECOND FLOW		FINAL SHUT-IN	
	MIN	PRESSURE	MIN	PRESSURE	MIN	PRESSURE	MIN	PRESSURE
31							90	807
32							93	823
33							96	836
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