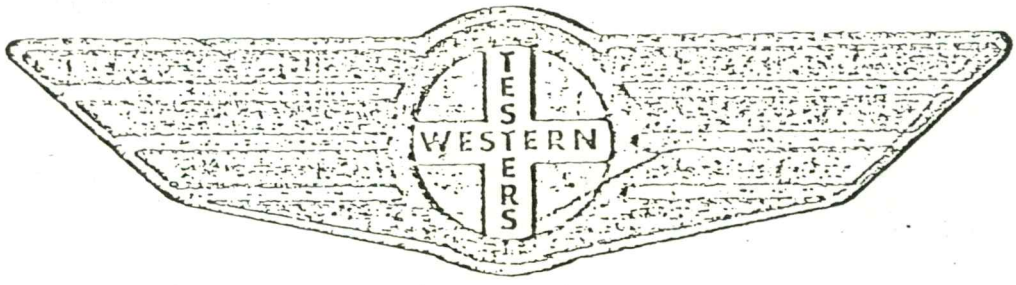
FORMATION TEST REPORT



Home Office: Wichita, Kansas 67201

P.O. Box 1599 Phone (316) 262-5861

Company _____ Lease and Well No. _____

WESTERN TESTING COMPANY INC.
SUBSURFACE PRESSURE SURVEY

DATE: 9/29/84 TICKET #4072
CUSTOMER: MACK ENERGY COMPANY LEASE: MISAK
WELL: #2 TEST: 1 GEOLOGIST: HANSON
ELEVATION (KB): 1252 FORMATION: MISS
SECTION: 6 TOWNSHIP: 34S
RANGE: 4W COUNTY: SUMNER STATE: KANSAS
GAUGE SN #5666 RANGE: 3950 CLOCK: 12

INTERVAL TEST FROM: 4316 FT TO: 4359 FT TOTAL DEPTH: 4359 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 4311 FT SIZE: 7 1/2 IN PACKER DEPTH: 4316 FT SIZE: 7 1/2 IN
PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: R & W
MUD TYPE: CHEM VISCOSITY: 40
WEIGHT: 9.3 WATER LOSS (CC): 13.6
CHLORIDES (P.P.M.): 7500
JARS - MAKE: SERIAL NUMBER:
DID WELL FLOW? YES REVERSED OUT? NO
DRILL COLLAR LENGTH: 497 FT I.D.: 2.25 IN
WEIGHT PIPE LENGTH: FT I.D.: IN
DRILL PIPE LENGTH: 3794 FT I.D.: 3.8 IN
TEST TOOL LENGTH: 25 FT TOOL SIZE: 5 1/2 O.D. IN
ANCHOR LENGTH: 43 FT SIZE: 5 1/2 O.D. IN
SURFACE CHOKE SIZE: 3/4 IN BOTTOM CHOKE SIZE: 3/4 IN
MAIN HOLE SIZE: 9 1/2 IN TOOL JOINT SIZE: 4 1/2 XH IN

BLOW: STRONG BLOW THROUGHOUT. GAS TO SURFACE
IN 3 MINUTES. 1612 MCFPD.

RECOVERED: 620 FT OF: MUDDY WATER; CHLORIDES 27500 P.P.M.
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: PLUGGING ACTION IN BOTH FLOW PERIODS.
TOOL OPENED ONCE ON A BRIDGE GOING INTO HOLE.

TIME SET PACKER(S): 12:15 A.M. TIME STARTED OFF BOTTOM: 2:30 A.M.
WELL TEMPERATURE: 125 'F

INITIAL HYDROSTATIC PRESSURE:		(A) 2181	PSI
INITIAL FLOW PERIOD	MIN: 15	(B) 409	PSI TO (C) 610 PSI
INITIAL CLOSED IN PERIOD	MIN: 30	(D) 1792	PSI
FINAL FLOW PERIOD	MIN: 30	(E) 518	PSI TO (F) 615 PSI
FINAL CLOSED IN PERIOD	MIN: 60	(G) 1782	PSI
FINAL HYDROSTATIC PRESSURE		(H) 2151	PSI

WESTERN TESTING COMPANY INC.
PRESSURE DATA

DATE: 9/29/84 TICKET #4072
CUSTOMER: MACK ENERGY COMPANY LEASE: MISAK
WELL: #2 TEST: 1 GEOLOGIST: HANSON
ELEVATION (KB): 1252 FORMATION: MISS
SECTION: 6 TOWNSHIP: 34S
RANGE: 4W COUNTY: SUMNER STATE: KANSAS
GAUGE SN #5666 RANGE: 3950 CLOCK: 12

(A) INITIAL HYDROSTATIC PRESSURE:	2181	PSI
(B) FIRST INITIAL FLOW PRESSURE:	409	PSI
(C) FIRST FINAL FLOW PRESSURE:	610	PSI
(D) INITIAL CLOSED-IN PRESSURE:	1792	PSI
(E) SECOND INITIAL FLOW PRESSURE:	518	PSI
(F) SECOND FINAL FLOW PRESSURE:	615	PSI
(G) FINAL CLOSED-IN PRESSURE:	1782	PSI
(H) FINAL HYDROSTATIC PRESSURE:	2151	PSI
WELL TEMPERATURE:	125	'F

OPEN TOOL: 12:15 A.M.

	TIME - GIVEN		TIME - ACTUAL	
FIRST FLOW PRESSURE:	15	MIN	15	MIN
INITIAL CLOSED-IN PRESSURE:	30	MIN	30	MIN
SECOND FLOW PRESSURE:	30	MIN	30	MIN
FINAL CLOSED-IN PRESSURE:	60	MIN	60	MIN

PRESSURE BREAKDOWN

	FIRST FLOW		INITIAL SHUT-IN		SECOND FLOW		FINAL SHUT-IN	
PT	MIN	PRESSURE	MIN	PRESSURE	MIN	PRESSURE	MIN	PRESSURE
1	0	409	0	610	0	518	0	615
2	5	503	3	1707	5	540	3	1649
3	10	565	6	1756	10	596	6	1710
4	15	610	9	1771	15	619	9	1732
5			12	1779	20	619	12	1743
6			15	1783	25	619	15	1751
7			18	1785	30	615	18	1757
8			21	1787			21	1763
9			24	1789			24	1765
10			27	1791			27	1767
11			30	1792			30	1769
12							33	1771
13							36	1773
14							39	1775
15							42	1776
16							45	1777
17							48	1778
18							51	1779
19							54	1780
20							57	1781
21							60	1782
22								
23								
24								
25								
26								
27								
28								
29								
30								

WESTERN TESTING COMPANY INC.
GAS FLOW REPORT

DATE: 9/29/84 TICKET #4072
CUSTOMER: MACK ENERGY COMPANY LEASE: MISAK
WELL: #2 TEST: 1 GEOLOGIST: HANSON
ELEVATION (KB): 1252 FORMATION: MISS
SECTION: 6 TOWNSHIP: 34S
RANGE: 4W COUNTY: SUMNER STATE: KANSAS
GAUGE SN #5666 RANGE: 3950 CLOCK: 12

TIME GAUGE (MIN)	TESTER TYPE	ORIFICE SIZE	PRESSURE (PSI)	FLOW DESCRIPTION
			PRE FLOW	
3				GAS TO SURFACE IN 3 MINUTES.
15	MERLA	1 1/4	9.5 PSIG	777000 CFPD
			SECOND FLOW	
20	MERLA	1 1/4	23 PSIG	1346000 CFPD
25		1 1/4	29 PSIG	1579000 " "
30		1 1/4	30 PSIG	1612000 " "
35				BLOWING MUD CAN NOT GAUGE.
40				"
45				"

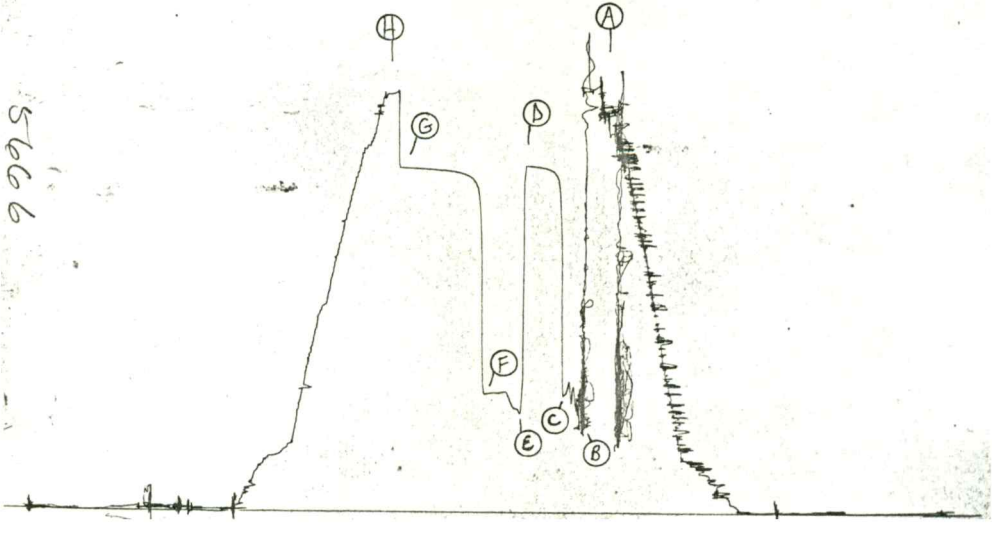
GAS BOTTLE SN #: 617
DATE BOTTLE FILLED: 9/29/84
DATE TO BE INVOICED: 10/2/84

IKT # 4072

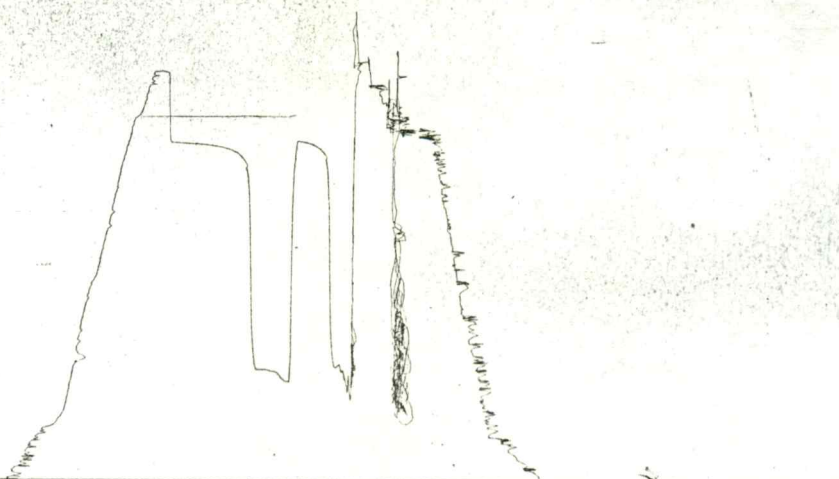
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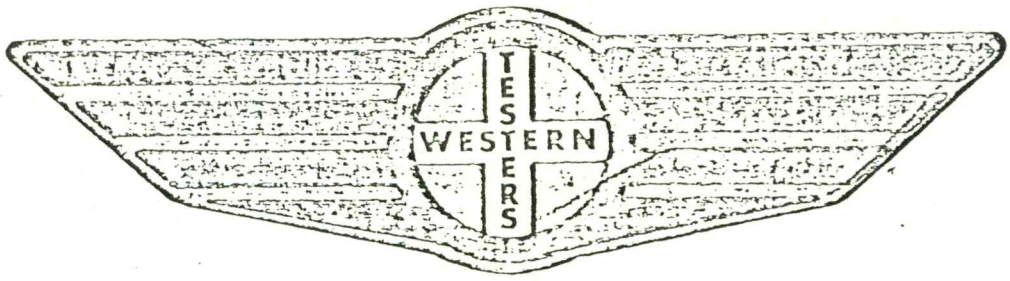


IKT # 4072



4072 1326'

FORMATION TEST REPORT



Home Office: Wichita, Kansas 67201

P.O. Box 1599 Phone (316) 262-5861

mpany MACK ENERGY COMPANY Lease and Well No. #2 MISAK Sec. 6 Twp. 34S Rge. 4W Test No. 2 Date 10/1/84

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE: 10/1/84 TICKET #4074
CUSTOMER: MACK ENERGY COMPANY LEASE: MISAK
WELL: 2 TEST: 2 GEOLOGIST: HANSON
ELEVATION (KB): 1252 FORMATION: SIMPSON
SECTION: 6 TOWNSHIP: 34S
RANGE: 4W COUNTY: SUMNER STATE: KANSAS
GAUGE SN #5666 RANGE: 3950 CLOCK: 12

INTERVAL TEST FROM: 4720 FT TO: 4739 FT TOTAL DEPTH: 4739 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 4715 FT SIZE: 7 1/2 IN PACKER DEPTH: 4720 FT SIZE: 7 1/2 IN
PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: RAINS & WILLIAMSON
MUD TYPE: CHEMICAL VISCOSITY:
WEIGHT: WATER LOSS (CC):
CHLORIDES (P.P.M.):
JARS - MAKE: SERIAL NUMBER:
DID WELL FLOW? REVERSED OUT?
DRILL COLLAR LENGTH: 497 FT I.D.: 2.25 IN
WEIGHT PIPE LENGTH: FT I.D.: IN
DRILL PIPE LENGTH: 4198 FT I.D.: 3.8 IN
TEST TOOL LENGTH: 25 FT TOOL SIZE: 5 1/2 IN
ANCHOR LENGTH: 19 FT SIZE: 5 1/2 IN
SURFACE CHOKE SIZE: 3/4 IN BOTTOM CHOKE SIZE: 3/4 IN
MAIN HOLE SIZE: 9 1/2 IN TOOL JOINT SIZE: 4 1/2 XH IN

BLOW:

RECOVERED: FT OF:
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: MISRUN. PACKER SEAT FAILURE.

TIME SET PACKER(S): TIME STARTED OFF BOTTOM:
WELL TEMPERATURE: 0 'F
INITIAL HYDROSTATIC PRESSURE: (A) 2373 PSI
INITIAL FLOW PERIOD MIN: 0 (B) 0 PSI TO (C) 0 PSI
INITIAL CLOSED IN PERIOD MIN: 0 (D) 0 PSI
FINAL FLOW PERIOD MIN: 0 (E) 0 PSI TO (F) 0 PSI
FINAL CLOSED IN PERIOD MIN: 0 (G) 0 PSI
FINAL HYDROSTATIC PRESSURE (H) 2359 PSI

WESTERN TESTING CO. INC.
PRESSURE DATA

DATE: 10/1/84 TICKET #4074
CUSTOMER: MACK ENERGY COMPANY LEASE: MISAK
WELL: 2 TEST: 2 GEOLOGIST: HANSON
ELEVATION (KB): 1252 FORMATION: SIMPSON
SECTION: 6 TOWNSHIP: 34S
RANGE: 4W COUNTY: SUMNER STATE: KANSAS
GAUGE SN #5666 RANGE: 3950 CLOCK: 12

(A) INITIAL HYDROSTATIC PRESSURE:	2373	PSI
(B) FIRST INITIAL FLOW PRESSURE:	0	PSI
(C) FIRST FINAL FLOW PRESSURE:	0	PSI
(D) INITIAL CLOSED-IN PRESSURE:	0	PSI
(E) SECOND INITIAL FLOW PRESSURE:	0	PSI
(F) SECOND FINAL FLOW PRESSURE:	0	PSI
(G) FINAL CLOSED-IN PRESSURE:	0	PSI
(H) FINAL HYDROSTATIC PRESSURE:	2359	PSI
WELL TEMPERATURE:	0	'F

OPEN TOOL:

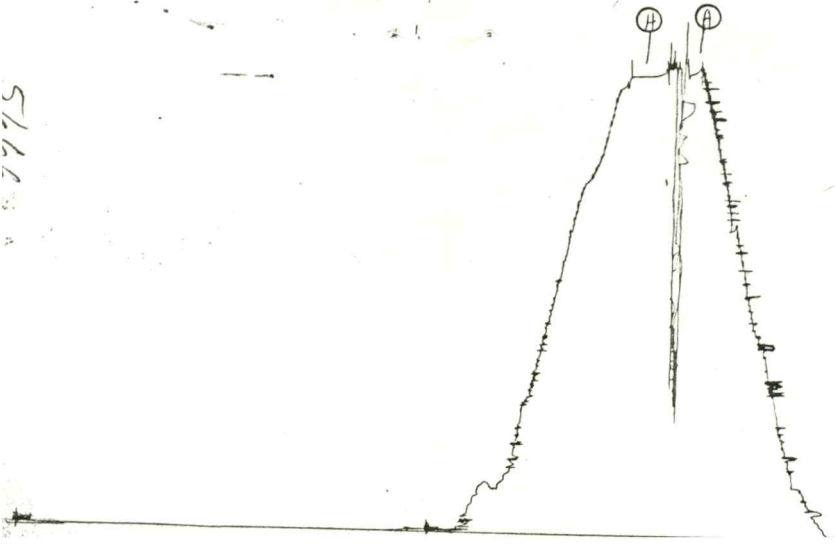
	TIME - GIVEN	TIME - ACTUAL
FIRST FLOW PRESSURE:	MIN	0 MIN
INITIAL CLOSED-IN PRESSURE:	MIN	0 MIN
SECOND FLOW PRESSURE:	MIN	0 MIN
FINAL CLOSED-IN PRESSURE:	MIN	0 MIN

PRESSURE BREAKDOWN

	FIRST FLOW		INITIAL SHUT-IN		SECOND FLOW		FINAL SHUT-IN	
PT	MIN	PRESSURE	MIN	PRESSURE	MIN	PRESSURE	MIN	PRESSURE
1	0	0	0	0	0	0	0	0
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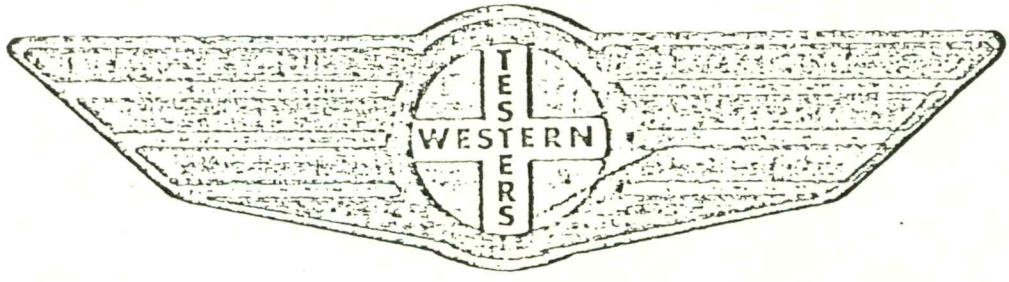
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FORMATION TEST REPORT



Home Office: Wichita, Kansas 67201

P.O. Box 1599 Phone (316) 262-5861

Company MACK ENERGY COMPANY Lease and Well No. #2 MISAK Sec. 6 Twp. 34S Rge. 4W Test No. 3 Date 10/2/84

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE: 10/2/84 TICKET #4075
CUSTOMER: MACK ENERGY COMPANY LEASE: MISAK
WELL: 2 TEST: 3 GEOLOGIST: HANSON
ELEVATION (KB): 1252 FORMATION: SIMPSON
SECTION: 6 TOWNSHIP: 34S
RANGE: 4W COUNTY: SUMNER STATE: KANSAS
GAUGE SN #5666 RANGE: 3950 CLOCK: 12

INTERVAL TEST FROM: 4734 FT TO: 4739 FT TOTAL DEPTH: 4739 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 4729 FT SIZE: 7 1/2 IN PACKER DEPTH: 4734 FT SIZE: 7 1/2 IN
PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: RAINS & WILLIAMSON
MUD TYPE: CHEMICAL VISCOSITY: 38
WEIGHT: 9.3 WATER LOSS (CC): 15.6
CHLORIDES (P.P.M.): 9000
JARS - MAKE: SERIAL NUMBER:
DID WELL FLOW? NO REVERSED OUT? NO

DRILL COLLAR LENGTH:	497	FT	I.D.: 2.25	IN	
WEIGHT PIPE LENGTH:		FT	I.D.:	IN	
DRILL PIPE LENGTH:	4207	FT	I.D.: 3.8	IN	
TEST TOOL LENGTH:	30	FT	TOOL SIZE: 5 1/2	IN	
ANCHOR LENGTH:	5	FT	SIZE: 5 1/2	IN	
SURFACE CHOKE SIZE:	3/4	IN	BOTTOM CHOKE SIZE: 3/4	IN	
MAIN HOLE SIZE:	9 1/2	IN	TOOL JOINT SIZE: 4 1/2 XH	IN	

BLOW: WEAK BLOW THROUGHOUT TEST.

RECOVERED: 125 FT OF: MUD & CUTTINGS.
RECOVERED: FT OF:
RECOVERED: FT OF:
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RECOVERED: FT OF:

REMARKS: MISRUN. TOOL PLUGGED OFF. TOOL SLID 14 FEET TO BOTTOM. LOST CIRCULATION HALF WAY TO BOTTOM.

TIME SET PACKER(S): 4:45 AM TIME STARTED OFF BOTTOM: 6:45 AM
WELL TEMPERATURE: 136 'F

INITIAL HYDROSTATIC PRESSURE:		(A) 2365	PSI
INITIAL FLOW PERIOD	MIN: 0	(B) 0	PSI TO (C) 0 PSI
INITIAL CLOSED IN PERIOD	MIN: 0	(D) 0	PSI
FINAL FLOW PERIOD	MIN: 0	(E) 0	PSI TO (F) 0 PSI
FINAL CLOSED IN PERIOD	MIN: 0	(G) 0	PSI
FINAL HYDROSTATIC PRESSURE		(H) 2361	PSI

WESTERN TESTING CO. INC.

PRESSURE DATA

DATE: 10/2/84 TICKET #4075

CUSTOMER: MACK ENERGY COMPANY LEASE: MISAK

WELL: 2 TEST: 3 GEOLOGIST: HANSON

ELEVATION (KB): 1252 FORMATION: SIMPSON

SECTION: 6 TOWNSHIP: 34S

RANGE: 4W COUNTY: SUMNER STATE: KANSAS

GAUGE SN #5666 RANGE: 3950 CLOCK: 12

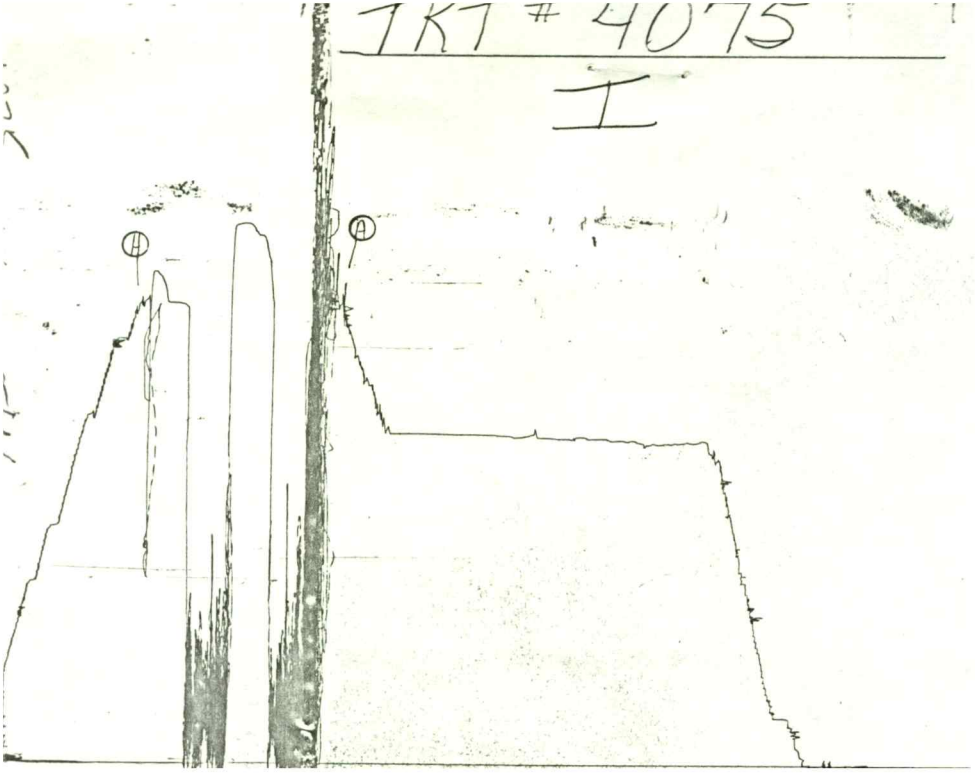
(A) INITIAL HYDROSTATIC PRESSURE:	2365	PSI
(B) FIRST INITIAL FLOW PRESSURE:	0	PSI
(C) FIRST FINAL FLOW PRESSURE:	0	PSI
(D) INITIAL CLOSED-IN PRESSURE:	0	PSI
(E) SECOND INITIAL FLOW PRESSURE:	0	PSI
(F) SECOND FINAL FLOW PRESSURE:	0	PSI
(G) FINAL CLOSED-IN PRESSURE:	0	PSI
(H) FINAL HYDROSTATIC PRESSURE:	2361	PSI
WELL TEMPERATURE:	136	'F

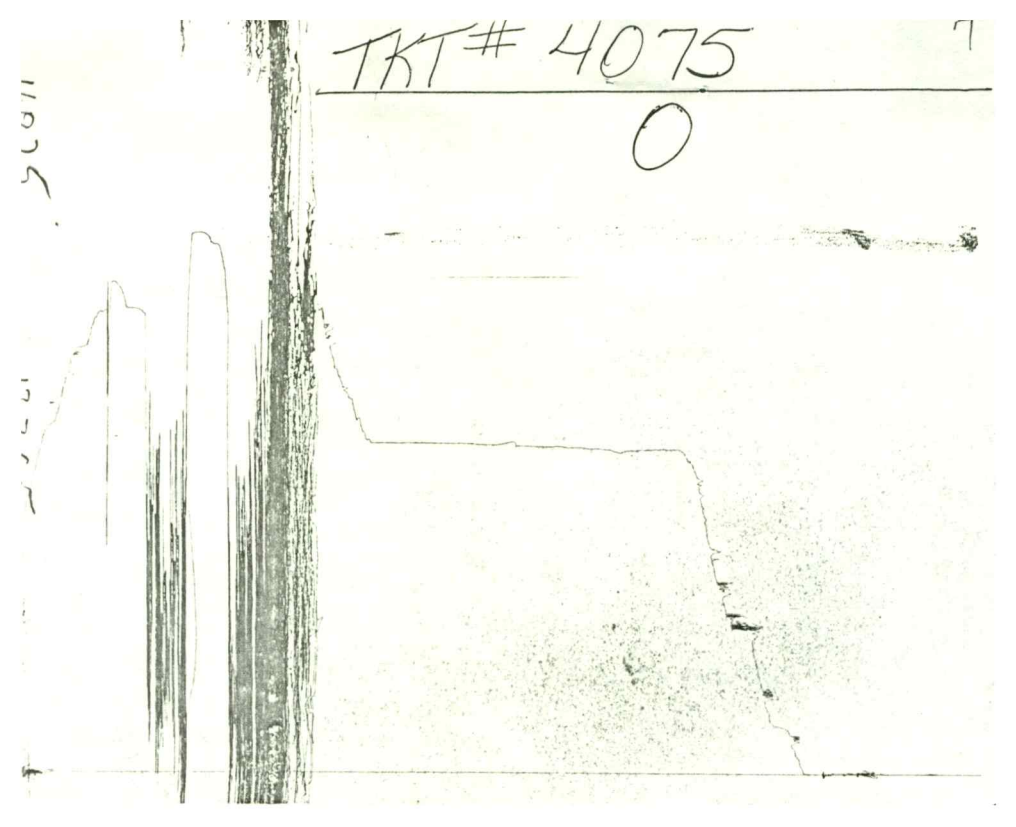
OPEN TOOL: 4:45 AM

	TIME - GIVEN		TIME - ACTUAL	
FIRST FLOW PRESSURE:	30	MIN	0	MIN
INITIAL CLOSED-IN PRESSURE:	30	MIN	0	MIN
SECOND FLOW PRESSURE:	30	MIN	0	MIN
FINAL CLOSED-IN PRESSURE:	30	MIN	0	MIN

PRESSURE BREAKDOWN

	FIRST FLOW		INITIAL SHUT-IN		SECOND FLOW		FINAL SHUT-IN	
PT	MIN	PRESSURE	MIN	PRESSURE	MIN	PRESSURE	MIN	PRESSURE
1	0	0	0	0	0	0	0	0
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