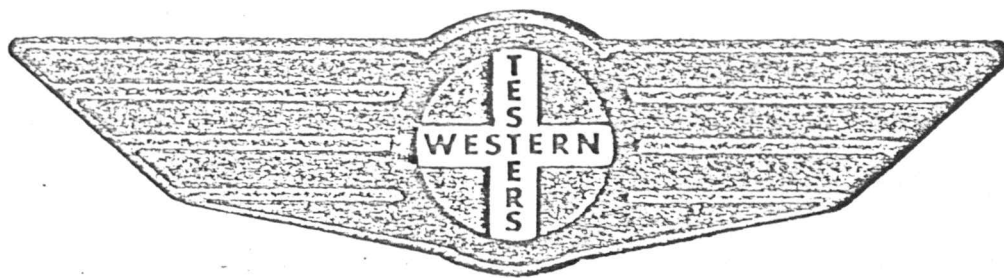


FORMATION

TEST

REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE: 8-31-85
CUSTOMER: RAINS & WILLIAMSON OIL CO INC
WELL: 3 TEST: 1
ELEVATION (KB): 1625 FORMATION: KANSAS CITY
SECTION: 32 TOWNSHIP: 25S
RANGE: 8E COUNTY: BUTLER STATE: KANSAS
GAUGE SN #5666 RANGE: 3950 CLOCK: 12

INTERVAL TEST FROM: 2226 FT TO: 2260 FT TOTAL DEPTH: 2260 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 2221 FT SIZE: 6 3/4 IN PACKER DEPTH: 2226 FT SIZE: 6 3/4 IN
PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: RAINS&WILLIAMSON #4
MUD TYPE: CHEMICAL VISCOSITY: 34
WEIGHT: 8.8 WATER LOSS (CC): 12.8
CHLORIDES (P.P.M.): 1000
JARS - MAKE: SERIAL NUMBER:
DID WELL FLOW? NO REVERSED OUT? NO
DRILL COLLAR LENGTH: 209 FT I.D.: 2.25 IN
WEIGHT PIPE LENGTH: FT I.D.: IN
DRILL PIPE LENGTH: 1997 FT I.D.: 3.8 IN
TEST TOOL LENGTH: 20 FT TOOL SIZE: 5 1/2 OD IN
ANCHOR LENGTH: 34 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 WEAK BLOW THROUGHOUT.
FINAL FLOW PERIOD FLUSHED TOOL.

RECOVERED: 30 FT OF: MUDDY WATER.
RECOVERED: FT OF: CHLORIDES 20000 PPM.
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): 12:15 AM TIME STARTED OFF BOTTOM: 2:15 AM
WELL TEMPERATURE: 98 °F
INITIAL HYDROSTATIC PRESSURE: (A) 1072 PSI
INITIAL FLOW PERIOD MIN: 25 (B) 57 PSI TO (C) 57 PSI
INITIAL CLOSED IN PERIOD MIN: 30 (D) 724 PSI
FINAL FLOW PERIOD MIN: 30 (E) 86 PSI TO (F) 70 PSI
FINAL CLOSED IN PERIOD MIN: 30 (G) 698 PSI
FINAL HYDROSTATIC PRESSURE (H) 1048 PSI

WESTERN TESTING CO. INC.
PRESSURE DATA

DATE: 8-31-85

CUSTOMER: RAINS & WILLIAMSON OIL CO INC

TEST: 1

FORMATION: KANSAS CITY

TOWNSHIP: 25S

COUNTY: BUTLER

RANGE: 3950

TICKET #6195

LEASE: ROSALIA RANCH

GEOLOGIST: B. KISSICH

(A) INITIAL HYDROSTATIC PRESSURE: 1072 PSI

(B) FIRST INITIAL FLOW PRESSURE: 57 PSI

(C) FIRST FINAL FLOW PRESSURE: 57 PSI

(D) INITIAL CLOSED-IN PRESSURE: 724 PSI

(E) SECOND INITIAL FLOW PRESSURE: 86 PSI

(F) SECOND FINAL FLOW PRESSURE: 70 PSI

(G) FINAL CLOSED-IN PRESSURE: 698 PSI

(H) FINAL HYDROSTATIC PRESSURE: 1048 PSI

WELL TEMPERATURE: 98 °F
OPEN TOOL 12 1/2" IF AM

OPEN TOOL: 12:15 AM

TIME - GIVEN TIME - ACTUAL

FIRST FLOW PRESSURE: 30 MIN 25 MIN

INITIAL CLOSED-IN PRESSURE: 30 MIN 30 MIN

SECOND FLOW PRESSURE: 30 MIN 30 MIN

FINAL CLOSED-IN PRESSURE: 30 MIN 30 MIN

PRESSURE BREAKDOWN

PT	FIRST FLOW		INITIAL SHUT-IN		SECOND FLOW		FINAL SHUT-IN	
	MIN	PRESSURE	MIN	PRESSURE	MIN	PRESSURE	MIN	PRESSURE
1	0	57	0	57	0	86	0	70
2	5	57	3	120	5	84	3	178
3	10	57	6	347	10	73	6	367
4	15	57	9	504	15	70	9	522
5	20	57	12	590	20	70	12	584
6	25	57	15	635	25	70	15	624
7			18	665	30	70	18	648
8			21	687			21	667
9			24	701			24	681
10			27	714			27	692
11			30	724			30	698

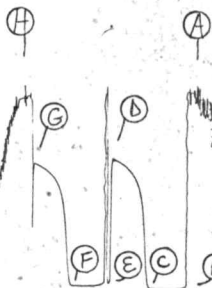
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DST #1
6195

TKT # 6195

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5666

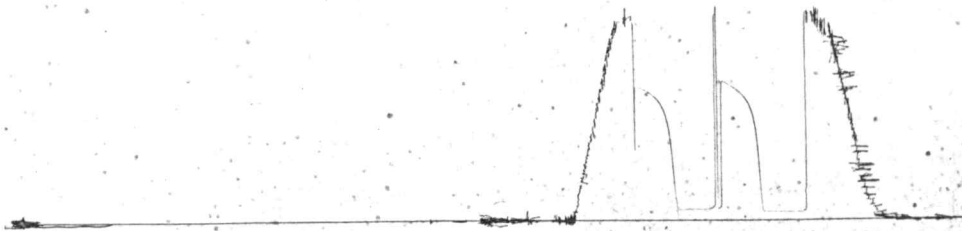


TKT # 6195

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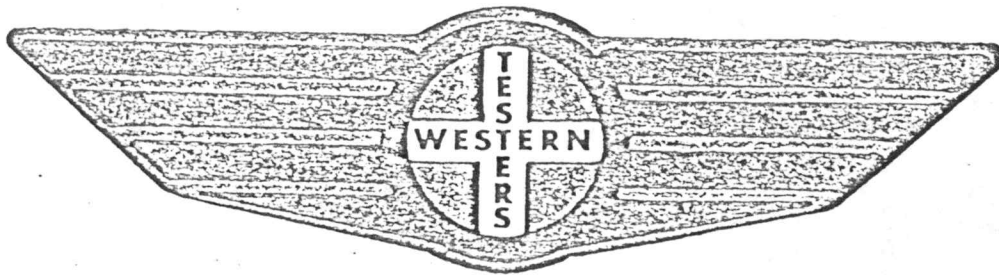
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FORMATION

TEST

REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE: 9-1-85
CUSTOMER: RAINS & WILLIAMSON OIL CO INC
WELL: 3
ELEVATION (KB): 1625
SECTION: 32
RANGE: 8E
GAUGE SN #5666

TEST: 2
FORMATION: BARTLESVILLE
TOWNSHIP: 25S
COUNTY: BUTLER
RANGE: 3950

TICKET #6196
LEASE: ROSALIA RANCH
GEOLOGIST: B.J. KISSICK
STATE: KANSAS
CLOCK: 12

INTERVAL TEST FROM: 2604 FT TO: 2715 FT TOTAL DEPTH: 2715 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 2599 FT SIZE: 6 3/4 IN Packer DEPTH: 2604 FT SIZE: 6 3/4 IN
PACKER DEPTH: FT SIZE: IN Packer DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: RAINS/WILLIAMSON #4
MUD TYPE: CHEMICAL VISCOSITY: 38
WEIGHT: 9.0 WATER LOSS (CC): 12.0
CHLORIDES (P.P.M.): 1000
JARS - MAKE: SERIAL NUMBER:
DID WELL FLOW? NO REVERSED OUT? NO
DRILL COLLAR LENGTH: 209 FT I.D.: 2.25 IN
WEIGHT PIPE LENGTH: FT I.D.: IN
DRILL PIPE LENGTH: 2375 FT I.D.: 3.8 IN
TEST TOOL LENGTH: 20 FT TOOL SIZE: 5 1/2 OD IN
ANCHOR LENGTH: 111 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: WEAK BLOW THROUGHOUT TEST.

RECOVERED: 185	FT	OF: DRILLING MUD.
RECOVERED:	FT	OF:
RECOVERED:	FT	OF:
RECOVERED:	FT	OF:
RECOVERED:	FT	OF:
RECOVERED:	FT	OF:
RECOVERED:	FT	OF:
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REMARKS:

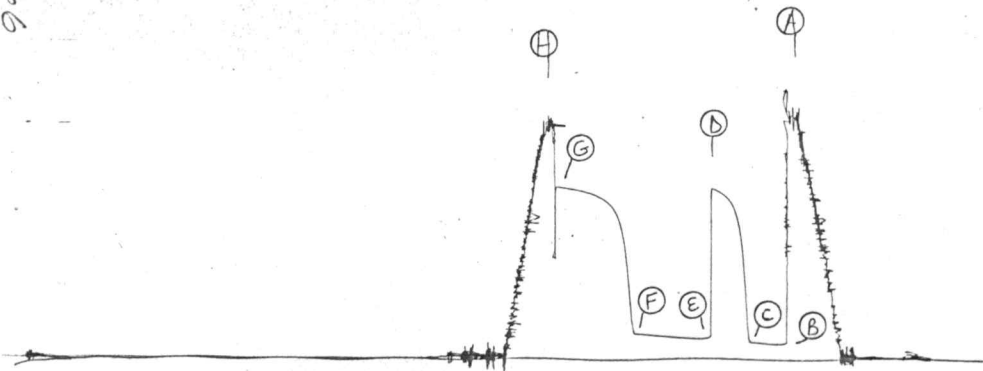
TIME SET PACKER(S): 11:15 AM	TIME STARTED OFF BOTTOM: 2:15 PM
WELL TEMPERATURE: 102 °F	
INITIAL HYDROSTATIC PRESSURE:	(A) 1229 PSI
INITIAL FLOW PERIOD MIN: 30	(B) 80 PSI TO (C) 88 PSI
INITIAL CLOSED IN PERIOD MIN: 33	(D) 884 PSI
FINAL FLOW PERIOD MIN: 60	(E) 105 PSI TO (F) 126 PSI
FINAL CLOSED IN PERIOD MIN: 60	(G) 883 PSI
FINAL HYDROSTATIC PRESSURE	(H) 1200 PSI

TKT. # 6196

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6196
DST # 2

5666

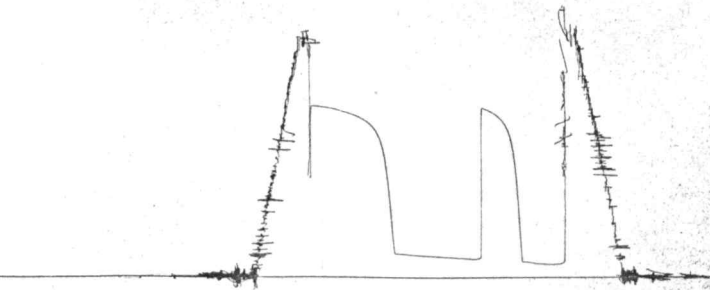


TKT # 6196
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DST#2

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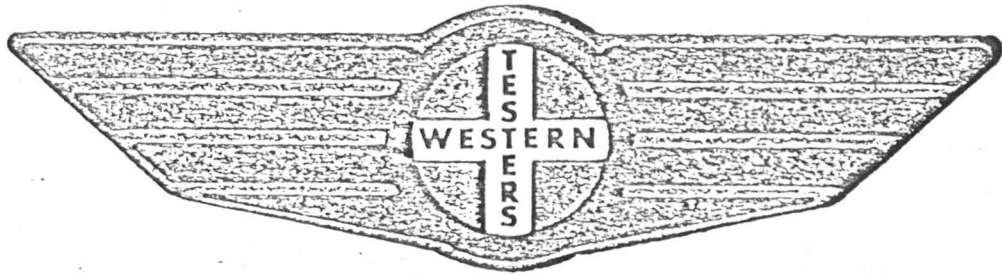
3351



FORMATION

TEST

REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

Company RAINS & WILLIAMSON OIL CO INC Lease & Well No. #3 ROSALIA RANCH Sec. 32 Twp. 25S Rge. 8E Test No. 3 Date 9/3/85

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE: 9-3-85
CUSTOMER: RAINS & WILLIAMSON OIL CO INC
WELL: 3 TEST: 3
ELEVATION (KB): 1625 FORMATION: VIOLA
SECTION: 32 TOWNSHIP: 25S
RANGE: 8E COUNTY: BUTLER STATE: KANSAS
GAUGE SN #5666 RANGE: 3950 CLOCK: 12

INTERVAL TEST FROM: 3163 FT TO: 3186 FT TOTAL DEPTH: 3186 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 3158 FT SIZE: 6 3/4 IN PACKER DEPTH: 3163 FT SIZE: 6 3/4 IN
PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: RAINS/WILLIAMSON #4
MUD TYPE: CHEMICAL VISCOSITY: 46
WEIGHT: 9.1 WATER LOSS (CC): 9.2
CHLORIDES (P.P.M.): 1500
JARS - MAKE: SERIAL NUMBER:
DID WELL FLOW? NO REVERSED OUT? NO
DRILL COLLAR LENGTH: 209 FT I.D.: 2.25 IN
WEIGHT PIPE LENGTH: FT I.D.: IN
DRILL PIPE LENGTH: 2934 FT I.D.: 3.8 IN
TEST TOOL LENGTH: 20 FT TOOL SIZE: 5 1/2 OD IN
ANCHOR LENGTH: 23 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: SURGE WHEN TOOL OPENED. NO BLOW.
FLUSHED TOOL FINAL FLOW PERIOD.

RECOVERED: 5	FT	OF: DRILLING MUD WITH FEW OIL SPOTS ON TOP.
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): 11:45 AM	TIME STARTED OFF BOTTOM: 1:45 PM
WELL TEMPERATURE: 111 °F	
INITIAL HYDROSTATIC PRESSURE:	(A) 1545 PSI
INITIAL FLOW PERIOD MIN: 30	(B) 52 PSI TO (C) 52 PSI
INITIAL CLOSED IN PERIOD MIN: 33	(D) 1023 PSI
FINAL FLOW PERIOD MIN: 30	(E) 71 PSI TO (F) 58 PSI
FINAL CLOSED IN PERIOD MIN: 33	(G) 1021 PSI
FINAL HYDROSTATIC PRESSURE	(H) 1519 PSI

PRESSURE DATA

DATE: 9-3-85

CUSTOMER: RAINS & WILLIAMSON OIL CO INC

WELL: 3
ELEVATION (KB): 1625

SECTION: 32

RANGE: 8E

GAUGE SN #5666

TEST: 3

COUNTY: BUTLER

RANGE: 3950

TICKET #6197

LEASE: ROSALIA RANCH

GEOLOGIST: B.J. KISSICH
VIOLA

FORMATION:

TOWNSHIP: 25S

STATE: KANSAS

CLOCK: 12

(A)	INITIAL HYDROSTATIC PRESSURE:	1545	PSI
(B)	FIRST INITIAL FLOW PRESSURE:	52	PSI
(C)	FIRST FINAL FLOW PRESSURE:	52	PSI
(D)	INITIAL CLOSED-IN PRESSURE:	1023	PSI
(E)	SECOND INITIAL FLOW PRESSURE:	71	PSI
(F)	SECOND FINAL FLOW PRESSURE:	58	PSI
(G)	FINAL CLOSED-IN PRESSURE:	1021	PSI
(H)	FINAL HYDROSTATIC PRESSURE:	1519	PSI
WELL TEMPERATURE:		111	'F

OPEN TOOL: 11:45 AM

TIME - GIVEN TIME - ACTUAL

FIRST FLOW PRESSURE: 30 MIN 30 MIN

INITIAL CLOSED-IN PRESSURE: 30 MIN 33 MIN

SECOND FLOW PRESSURE: 30 MIN 30 MIN

FINAL CLOSED-IN PRESSURE: 30 MIN 33 MIN

PRESSURE BREAKDOWN

PT	FIRST FLOW		INITIAL SHUT-IN		SECOND FLOW		FINAL SHUT-IN	
	MIN	PRESSURE	MIN	PRESSURE	MIN	PRESSURE	MIN	PRESSURE
1	0	52	0	52	0	71	0	58
2	5	52	3	91	5	64	3	60
3	10	52	6	591	10	60	6	284
4	15	52	9	893	15	58	9	687
5	20	52	12	1000	20	58	12	962
6	25	52	15	1016	25	58	15	1008
7	30	52	18	1020	30	58	18	1016
8			21	1022			21	1017
9			24	1022			24	1018
10			27	1023			27	1019
11			30	1023			30	1020
12			33	1023			33	1021

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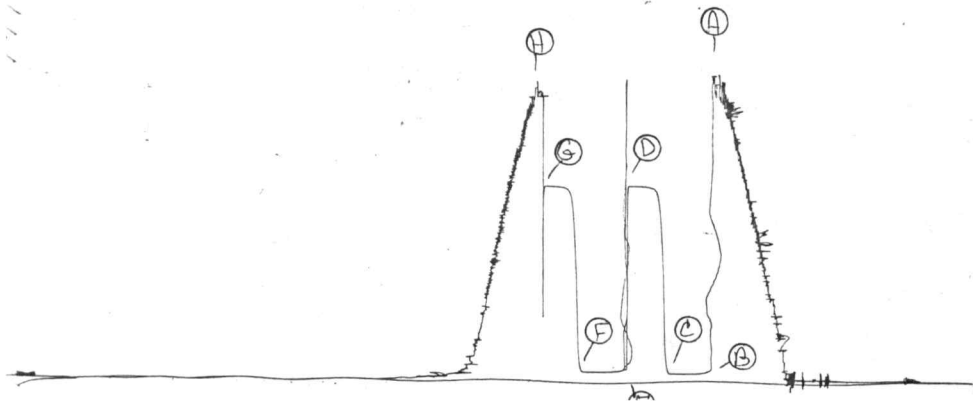
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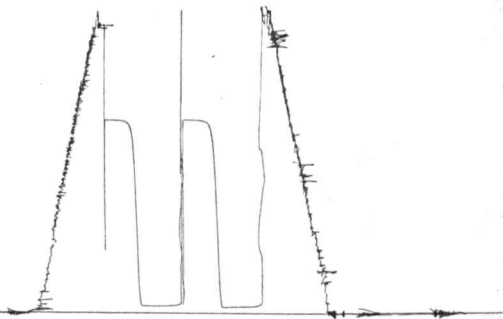


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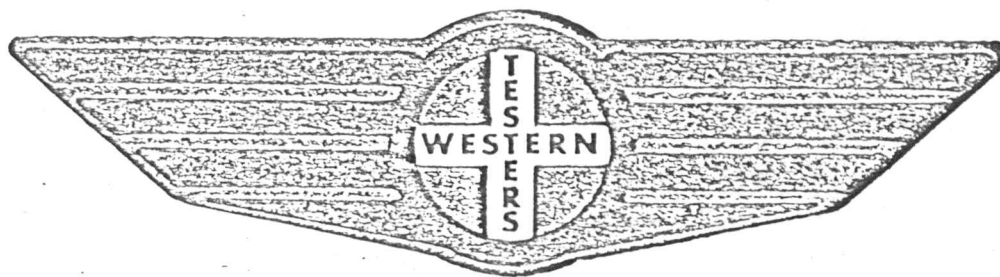
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FORMATION

TEST

REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE: 9-3-85
CUSTOMER: RAINS & WILLIAMSON OIL CO INC
WELL: 3 TEST: 4
ELEVATION (KB): 1625 FORMATION: VIOLA
SECTION: 32 TOWNSHIP: 25S
RANGE: 8E COUNTY: BUTLER STATE: KANSAS
GAUGE SN #5666 RANGE: 3950 CLOCK: 12

INTERVAL TEST FROM: 3161 FT TO: 3188 FT TOTAL DEPTH: 3188 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 3156 FT SIZE: 6 3/4 IN PACKER DEPTH: 3161 FT SIZE: 6 3/4 IN
PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: RAINS/WILLIAMSON #4
MUD TYPE: CHEMICAL VISCOSITY: 46
WEIGHT: 9.1 WATER LOSS (CC): 9.2
CHLORIDES (P.P.M.): 1500
JARS - MAKE: SERIAL NUMBER:
DID WELL FLOW? NO REVERSED OUT? NO
DRILL COLLAR LENGTH: 209 FT I.D.: 2.25 IN
WEIGHT PIPE LENGTH: FT I.D.: IN
DRILL PIPE LENGTH: 2932 FT I.D.: 3.8 IN
TEST TOOL LENGTH: 20 FT TOOL SIZE: 5 1/2 OD IN
ANCHOR LENGTH: 27 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: WEAK BLOW TO STRONG BLOW THROUGHOUT TEST.

RECOVERED: 625 FT OF: SALT WATER.
RECOVERED: FT OF: CHLORIDES 34000 PPM.
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:

REMARKS:

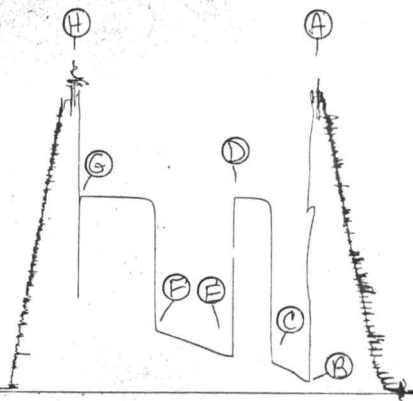
TIME SET PACKER(S): 9:45 PM TIME STARTED OFF BOTTOM: 12:45 AM
WELL TEMPERATURE: 111 °F
INITIAL HYDROSTATIC PRESSURE: (A) 1530 PSI
INITIAL FLOW PERIOD MIN: 30 (B) 61 PSI TO (C) 161 PSI
INITIAL CLOSED IN PERIOD MIN: 30 (D) 1012 PSI
FINAL FLOW PERIOD MIN: 55 (E) 195 PSI TO (F) 320 PSI
FINAL CLOSED IN PERIOD MIN: 57 (G) 1014 PSI
FINAL HYDROSTATIC PRESSURE (H) 1530 PSI

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