

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE: 8/15/83
CUSTOMER: RANGE OIL COMPANY INC.
WELL: 1 TEST: 1
ELEVATION (KB): 1089 FORMATION: FT. SCOTT
SECTION: 10 TOWNSHIP: 32S
RANGE: 10E COUNTY: CHAUTAUQUA STATE: KANSAS
GAUGE SN #2605 RANGE: 4150 CLOCK: 12

INTERVAL TEST FROM: 1683 FT TO: 1703 FT TOTAL DEPTH: 1703 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 1683 FT SIZE: 6 3/4 IN PACKER DEPTH: 1678 FT SIZE: 6 3/4 IN
PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: RANGE DRLG
MUD TYPE: CHEMICAL VISCOSITY: 38
WEIGHT: 9.4 WATER LOSS (CC): N/A
CHLORIDES (P.P.M.): N/A
JARS - MAKE: NO SERIAL NUMBER:
DID WELL FLOW? NO REVERSED OUT? NO
DRILL COLLAR LENGTH: 150 FT I.D.: 2.3 IN
WEIGHT PIPE LENGTH: FT I.D.: IN
DRILL PIPE LENGTH: 1513 FT I.D.: 3.8 IN
TEST TOOL LENGTH: 20 FT TOOL SIZE: 5 1/2 IN
ANCHOR LENGTH: 20 FT SIZE: 5 1/2 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 -
DIED IN 10 MINUTES.
FINAL FLOW PERIOD WEAK BLOW -
DIED IN 10 MINUTES.

RECOVERED: 75 FT OF: MUDDY SALTWATER
RECOVERED: FT OF: CHLORIDES 17000 PPM
RECOVERED: FT OF:
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REMARKS:

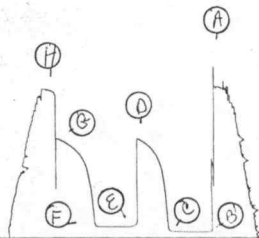
TIME SET PACKER(S): 1:30 TIME STARTED OFF BOTTOM: 3:30
WELL TEMPERATURE: 96 °F
INITIAL HYDROSTATIC PRESSURE: (A) 800 PSI
INITIAL FLOW PERIOD MIN: 30 (B) 34 PSI TO (C) 37 PSI
INITIAL CLOSED IN PERIOD MIN: 27 (D) 541 PSI
FINAL FLOW PERIOD MIN: 30 (E) 63 PSI TO (F) 63 PSI
FINAL CLOSED IN PERIOD MIN: 30 (G) 542 PSI
FINAL HYDROSTATIC PRESSURE (H) 780 PSI

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WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE: 8/15/83
CUSTOMER: RANGE OIL CO. INC.
WELL: 1 TEST: 2
ELEVATION (KB): 1089 FORMATION: CATTLEMAN
SECTION: 10 TOWNSHIP: 32S
RANGE: 10E COUNTY: CHAUTAUQUA STATE: KANSAS
GAUGE SN #2605 RANGE: 4150 CLOCK: 12

INTERVAL TEST FROM: 1788 FT TO: 1810 FT TOTAL DEPTH: 1810 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 1788 FT SIZE: 6 3/4 IN PACKER DEPTH: 1783 FT SIZE: 6 3/4 IN
PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: RANGE DRLG
MUD TYPE: CHEMICAL VISCOSITY: 35
WEIGHT: 9.5 WATER LOSS (CC): 16.8
CHLORIDES (P.P.M.): 1800
JARS - MAKE: SERIAL NUMBER:
DID WELL FLOW? NO REVERSED OUT? NO
DRILL COLLAR LENGTH: 150 FT I.D.: 2.4 IN
WEIGHT PIPE LENGTH: FT I.D.: IN
DRILL PIPE LENGTH: 1618 FT I.D.: 3.8 IN
TEST TOOL LENGTH: 20 FT TOOL SIZE: 5 1/2 IN
ANCHOR LENGTH: 22 FT SIZE: 5 1/2 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: VERY WEAK BLOW THROUGHOUT TEST.
DIED IN 4 MINUTES.

RECOVERED: 10 FT OF: MUD.
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REMARKS:

TIME SET PACKER(S): 5:05 PM
WELL TEMPERATURE: 97 °F
INITIAL HYDROSTATIC PRESSURE:
INITIAL FLOW PERIOD MIN: 30
INITIAL CLOSED IN PERIOD MIN: 30
FINAL FLOW PERIOD MIN: 30
FINAL CLOSED IN PERIOD MIN: 30
FINAL HYDROSTATIC PRESSURE

TIME STARTED OFF BOTTOM: 7:05 PM
(A) 856 PSI
(B) 34 PSI TO (C) 34 PSI
(D) 659 PSI
(E) 42 PSI TO (F) 42 PSI
(G) 497 PSI
(H) 856 PSI

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TICKET #19134

LEASE: "A" MCNEE

GEOLOGIST: LAUER

FORMATION: CATTLEMAN

TOWNSHIP: 32S

STATE: KANSAS

CLOCK: 12

(A) INITIAL HYDROSTATIC PRESSURE: 856 PSI

(B) FIRST INITIAL FLOW PRESSURE: 34 PSI

(C) FIRST FINAL FLOW PRESSURE: 34 PSI

(D) INITIAL CLOSED-IN PRESSURE: 659 PSI

(E) SECOND INITIAL FLOW PRESSURE: 42 PSI

(F) SECOND FINAL FLOW PRESSURE: 42 PSI

(G) FINAL CLOSED-IN PRESSURE: 497 PSI

(H) FINAL HYDROSTATIC PRESSURE: 856 PSI

WELL TEMPERATURE: 97 °F

OPEN TOOL: 5:05 PM

	TIME - GIVEN	TIME - ACTUAL
FIRST FLOW PRESSURE:	30 MIN	30 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	34	0	34	0	42	0	42
2	5	34	3	34	5	42	3	42
3	10	34	6	37	10	42	6	42
4	15	34	9	44	15	42	9	44
5	20	34	12	63	20	42	12	50
6	25	34	15	182	25	42	15	61
7	30	34	18	345	30	42	18	84
8			21	493			21	156
9			24	582			24	264
10			27	628			27	379
11			30	659			30	497

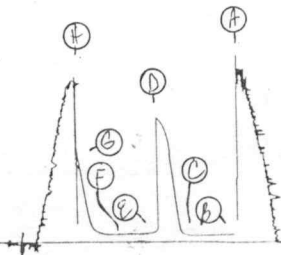
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WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE: 8/16/83
CUSTOMER: RANGE OIL COMPANY INC.
WELL: 1 TEST: 3
ELEVATION (KB): 1089 FORMATION: MISSISSIPPI
SECTION: 10 TOWNSHIP: 32S
RANGE: 10E COUNTY: CHAUTAUQUA STATE: KANSAS
GAUGE SN #2605 RANGE: 4150 CLOCK: 12

INTERVAL TEST FROM: 2016 FT TO: 2026 FT TOTAL DEPTH: 2026 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 2016 FT SIZE: 6 3/4 IN PACKER DEPTH: 2011 FT SIZE: 6 3/4 IN
PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: RANGE DRLG
MUD TYPE: CHEMICAL VISCOSITY: 40
WEIGHT: 9.5 WATER LOSS (CC): 16.8
CHLORIDES (P.P.M.): 1800
JARS - MAKE: NO SERIAL NUMBER:
DID WELL FLOW? NO REVERSED OUT? NO
DRILL COLLAR LENGTH: 150 FT I.D.: 2.3 IN
WEIGHT PIPE LENGTH: FT I.D.: IN
DRILL PIPE LENGTH: 1846 FT I.D.: 3.8 IN
TEST TOOL LENGTH: 20 FT TOOL SIZE: 5 1/2 IN
ANCHOR LENGTH: 10 FT SIZE: 5 1/2 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 VERY WEAK BLOW-
DIED IN 5 MINUTES.
FINAL FLOW PERIOD FLUSHED TOOL -
GOOD SURGE - NO BLOW.

RECOVERED: 5 FT OF: MUD
RECOVERED: FT OF:
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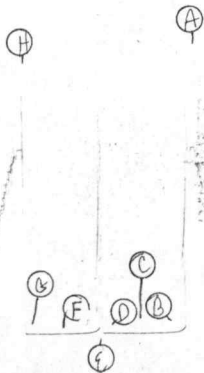
REMARKS:

TIME SET PACKER(S): 10:50
WELL TEMPERATURE: 100 °F
INITIAL HYDROSTATIC PRESSURE:
INITIAL FLOW PERIOD MIN: 30
INITIAL CLOSED IN PERIOD MIN: 30
FINAL FLOW PERIOD MIN: 30
FINAL CLOSED IN PERIOD MIN: 27
FINAL HYDROSTATIC PRESSURE

TIME STARTED OFF BOTTOM: 12:50
(A) 1026 PSI
(B) 25 PSI TO (C) 25 PSI
(D) 29 PSI
(E) 29 PSI TO (F) 26 PSI
(G) 30 PSI
(H) 1020 PSI

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WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE: 8/16/83
CUSTOMER: RANGE OIL CO. INC.
WELL: 1 TEST: 4
ELEVATION (KB): 1089 FORMATION: MISSISSIPPI
SECTION: 10 TOWNSHIP: 32S
RANGE: 10E COUNTY: CHAUTAUQUA STATE: KANSAS
GAUGE SN #2605 RANGE: 4150 CLOCK: 12

INTERVAL TEST FROM: 2026 FT TO: 2056 FT TOTAL DEPTH: 2056 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 2026 FT SIZE: 6 3/4 IN PACKER DEPTH: 2021 FT SIZE: 6 3/4 IN
PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: RANGE DRLG
MUD TYPE: CHEMICAL VISCOSITY: 43
WEIGHT: 9.5 WATER LOSS (CC): 16.8
CHLORIDES (P.P.M.): 1800
JARS - MAKE: SERIAL NUMBER:
DID WELL FLOW? NO REVERSED OUT? NO
DRILL COLLAR LENGTH: 150 FT I.D.: 2.25 IN
WEIGHT PIPE LENGTH: FT I.D.: IN
DRILL PIPE LENGTH: 1856 FT I.D.: 3.8 IN
TEST TOOL LENGTH: 20 FT TOOL SIZE: 5 1/2 IN
ANCHOR LENGTH: 30 FT SIZE: 5 1/2 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: VERY WEAK BLOW THROUGHOUT TEST.
DIED IN 3 MINUTES.

RECOVERED: 10	FT	OF: MUD WITH FEW OIL SPOTS ON TOP OF TOOL.
RECOVERED:	FT	OF:
RECOVERED:	FT	OF:
RECOVERED:	FT	OF:
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RECOVERED:	FT	OF:
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REMARKS:

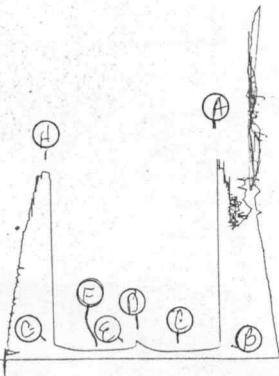
TIME SET PACKER(S): 9:05 PM
WELL TEMPERATURE: 100 °F
INITIAL HYDROSTATIC PRESSURE:
INITIAL FLOW PERIOD MIN: 30
INITIAL CLOSED IN PERIOD MIN: 33
FINAL FLOW PERIOD MIN: 30
FINAL CLOSED IN PERIOD MIN: 30
FINAL HYDROSTATIC PRESSURE

TIME STARTED OFF BOTTOM: 11:05 PM
(A) 1014 PSI
(B) 38 PSI TO (C) 38 PSI
(D) 99 PSI
(E) 46 PSI TO (F) 46 PSI
(G) 78 PSI
(H) 1000 PSI

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