

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE: 5/31/83 TICKET #18843
CUSTOMER: RANGE OIL COMPANY INC. LEASE: MALONE
WELL: 5 TEST: 1 GEOLOGIST: H G MCMAHON III
ELEVATION (KB): 1103 FORMATION: PAWNEE
SECTION: 11 TOWNSHIP: 32S
RANGE: 10E COUNTY: CHAUTAUQUA STATE: KANSAS
GAUGE SN #13265 RANGE: 3975 CLOCK: 12

INTERVAL TEST FROM: 1623 FT TO: 1634 FT TOTAL DEPTH: 1634 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 1618 FT SIZE: 6 3/4 IN PACKER DEPTH: 1623 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: 9.3 WATER LOSS (CC): 13.6
CHLORIDES (P.P.M.): 1000
JARS - MAKE: SERIAL NUMBER:
DID WELL FLOW? NO REVERSED OUT? NO
DRILL COLLAR LENGTH: 181 FT I.D.: 2 1/4 IN
WEIGHT PIPE LENGTH: FT I.D.: IN
DRILL PIPE LENGTH: 1442 FT I.D.: 3.8 IN
TEST TOOL LENGTH: 20 FT TOOL SIZE: 5 1/2 IN
ANCHOR LENGTH: 11 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 FOR 29 MINUTES.

RECOVERED: 5	FT	OF: DRILLING MUD
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): 6:30 PM	TIME STARTED OFF BOTTOM: 8:30 PM
WELL TEMPERATURE: 91 °F	
INITIAL HYDROSTATIC PRESSURE:	(A) 789 PSI
INITIAL FLOW PERIOD MIN: 30	(B) 23 PSI TO (C) 24 PSI
INITIAL CLOSED IN PERIOD MIN: 30	(D) 547 PSI
FINAL FLOW PERIOD MIN: 30	(E) 53 PSI TO (F) 92 PSI
FINAL CLOSED IN PERIOD MIN: 30	(G) 541 PSI
FINAL HYDROSTATIC PRESSURE	(H) 781 PSI

WESTERN TESTING CO. INC.
PRESSURE DATA

DATE: 5/31/83

CUSTOMER: RANGE OIL COMPANY INC.

GEOLOGIST: H G MCMAHON III

CLOCK: 12

OPEN TOOL: 6:30 PM

FINAL CLOSED-IN PRESSURE: 30 MIN 30 MIN

PT	FIRST FLOW		INITIAL SHUT-IN		SECOND FLOW		FINAL SHUT-IN	
	MIN	PRESSURE	MIN	PRESSURE	MIN	PRESSURE	MIN	PRESSURE
1	0	23	0	24	0	53	0	92
2	5	23	3	101	5	41	3	168
3	10	23	6	196	10	50	6	256
4	15	23	9	288	15	35	9	337
5	20	23	12	369	20	29	12	399
6	25	24	15	431	25	60	15	445
7	30	24	18	474	30	92	18	475
8			21	504			21	498
9			24	527			24	518
10			27	543			27	531
11			30	547			30	541

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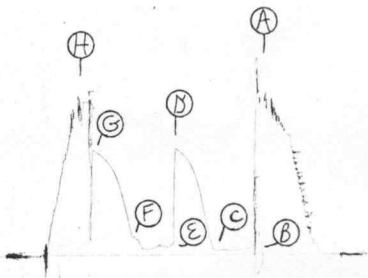
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WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE: 6/1/83 TICKET #18844
CUSTOMER: RANGE OIL COMPANY INC. LEASE: MALONE
WELL: 5 TEST: 2 GEOLOGIST: H G MCMAHON III
ELEVATION (KB): 1103 FORMATION: FORT SCOTT
SECTION: 11 TOWNSHIP: 32S
RANGE: 10E COUNTY: CHAUTAUQUA STATE: KANSAS
GAUGE SN #13265 RANGE: 3975 CLOCK: 12

INTERVAL TEST FROM: 1671 FT TO: 1689 FT TOTAL DEPTH: 1689 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 1666 FT SIZE: 6 3/4 IN PACKER DEPTH: 1671 FT SIZE: 6 3/4 IN
PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: RANGE DRLG
MUD TYPE: CHEMICAL VISCOSITY: 44
WEIGHT: 9.5 WATER LOSS (CC):
CHLORIDES (P.P.M.):
JARS - MAKE: SERIAL NUMBER:
DID WELL FLOW? NO REVERSED OUT? NO
DRILL COLLAR LENGTH: 123 FT I.D.: 2 1/4 IN
WEIGHT PIPE LENGTH: FT I.D.: IN
DRILL PIPE LENGTH: 1536 FT I.D.: 3.8 IN
TEST TOOL LENGTH: 20 FT TOOL SIZE: 5 1/2 IN
ANCHOR LENGTH: 18 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: WEAK BLOW THROUGHOUT TEST.

RECOVERED: 20 FT OF: MUD ONE OIL SPOT 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:

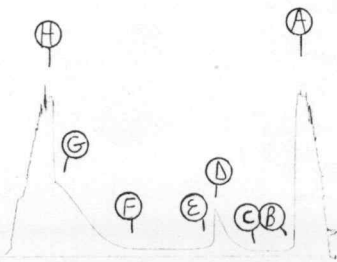
TIME SET PACKER(S): 4:00 AM TIME STARTED OFF BOTTOM: 7:00 AM
WELL TEMPERATURE: 91 °F
INITIAL HYDROSTATIC PRESSURE: (A) 819 PSI
INITIAL FLOW PERIOD MIN: 30 (B) 30 PSI TO (C) 30 PSI
INITIAL CLOSED IN PERIOD MIN: 30 (D) 245 PSI
FINAL FLOW PERIOD MIN: 60 (E) 40 PSI TO (F) 40 PSI
FINAL CLOSED IN PERIOD MIN: 57 (G) 384 PSI
FINAL HYDROSTATIC PRESSURE (H) 812 PSI

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WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE: 6/2/83
CUSTOMER: RANGE OIL COMPANY INC.
WELL: 5 TEST: 3
ELEVATION (KB): 1103 FORMATION: MISSISSIPPI
SECTION: 11 TOWNSHIP: 32S
RANGE: 10E COUNTY: CHAUTAUQUA STATE: KANSAS
GAUGE SN #13265 RANGE: 3975 CLOCK: 12

INTERVAL TEST FROM: 1996 FT TO: 2016 FT TOTAL DEPTH: 2016 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 1991 FT SIZE: 6 3/4 IN PACKER DEPTH: 1996 FT SIZE: 6 3/4 IN
PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: RANGE
MUD TYPE: CHEMICAL VISCOSITY: 41
WEIGHT: 9.3 WATER LOSS (CC): 12.0
CHLORIDES (P.P.M.): 1400
JARS - MAKE: SERIAL NUMBER:
DID WELL FLOW? NO REVERSED OUT? NO
DRILL COLLAR LENGTH: 123 FT I.D.: 2 1/4 IN
WEIGHT PIPE LENGTH: FT I.D.: IN
DRILL PIPE LENGTH: 1871 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: WEAK BLOW FOR 45 MINUTES.

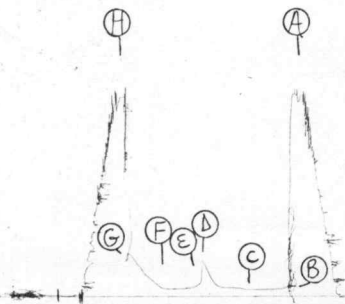
RECOVERED: 20	FT	OF: THICK MUD VERY SLIGHT OIL & GAS CUT
RECOVERED:	FT	OF:
RECOVERED:	FT	OF:
RECOVERED:	FT	OF:
RECOVERED:	FT	OF:
RECOVERED:	FT	OF:
RECOVERED:	FT	OF:
RECOVERED:	FT	OF:
RECOVERED:	FT	OF:

REMARKS:

TIME SET PACKER(S): 1:15 AM	TIME STARTED OFF BOTTOM: 3:15 AM
WELL TEMPERATURE: 97 °F	
INITIAL HYDROSTATIC PRESSURE:	(A) 1020 PSI
INITIAL FLOW PERIOD MIN: 30	(B) 35 PSI TO (C) 35 PSI
INITIAL CLOSED IN PERIOD MIN: 33	(D) 188 PSI
FINAL FLOW PERIOD MIN: 30	(E) 39 PSI TO (F) 39 PSI
FINAL CLOSED IN PERIOD MIN: 27	(G) 222 PSI
FINAL HYDROSTATIC PRESSURE	(H) 1012 PSI

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WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE: 6/2/83
CUSTOMER: RANGE OIL COMPANY INC.
WELL: 5 TEST: 4
ELEVATION (KB): 1103 FORMATION: MISSISSIPPI
SECTION: 11 TOWNSHIP: 32S
RANGE: 10E COUNTY: CHAUTAUQUA STATE: KANSAS
GAUGE SN #13265 RANGE: 3975 CLOCK: 12

INTERVAL TEST FROM: 2016 FT TO: 2041 FT TOTAL DEPTH: 2041 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 2011 FT SIZE: 6 3/4 IN PACKER DEPTH: 2016 FT SIZE: 6 3/4 IN
PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: RANGE
MUD TYPE: CHEMICAL VISCOSITY: 49
WEIGHT: 9.6 WATER LOSS (CC): 11.2
CHLORIDES (P.P.M.): 1400
JARS - MAKE: SERIAL NUMBER:
DID WELL FLOW? NO REVERSED OUT? NO
DRILL COLLAR LENGTH: 123 FT I.D.: 2 1/4 IN
WEIGHT PIPE LENGTH: FT I.D.: IN
DRILL PIPE LENGTH: 1873 FT I.D.: 3.8 IN
TEST TOOL LENGTH: 25 FT TOOL SIZE: 5 1/2 IN
ANCHOR LENGTH: 25 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: STRONG BLOW THROUGHOUT TEST.

RECOVERED: 1760 FT OF: GAS IN PIPE
RECOVERED: 50 FT OF: VERY SLIGHT OIL & GAS CUT MUD
RECOVERED: 60 FT OF: OIL & GAS CUT MUD - 20% OIL
RECOVERED: 60 FT OF: OIL & GAS CUT MUD - 30% OIL
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:

REMARKS:

TIME SET PACKER(S): 11:30 AM TIME STARTED OFF BOTTOM: 3:00 PM
WELL TEMPERATURE: 100 °F
INITIAL HYDROSTATIC PRESSURE: (A) 1009 PSI
INITIAL FLOW PERIOD MIN: 30 (B) 58 PSI TO (C) 73 PSI
INITIAL CLOSED IN PERIOD MIN: 27 (D) 344 PSI
FINAL FLOW PERIOD MIN: 60 (E) 85 PSI TO (F) 95 PSI
FINAL CLOSED IN PERIOD MIN: 87 (G) 356 PSI
FINAL HYDROSTATIC PRESSURE (H) 981 PSI

WESTERN TESTING CO. INC.

CUSTOMER: RANGE OIL COMPANY INC.

TEST: 4

FORMATION: MISSISSIPPI

TOWNSHIP: 32S

COUNTY: CHAUTAUQUA

RANGE: 3975

LEASE: MALONE

GEOLOGIST: H G MCMAHON III

MISSISSIPPI

STATE: KANSAS

CLOCK: 12

(A)	INITIAL HYDROSTATIC PRESSURE:	1009	PSI
(B)	FIRST INITIAL FLOW PRESSURE:	58	PSI
(C)	FIRST FINAL FLOW PRESSURE:	73	PSI
(D)	INITIAL CLOSED-IN PRESSURE:	344	PSI
(E)	SECOND INITIAL FLOW PRESSURE:	85	PSI
(F)	SECOND FINAL FLOW PRESSURE:	95	PSI
(G)	FINAL CLOSED-IN PRESSURE:	356	PSI
(H)	FINAL HYDROSTATIC PRESSURE:	981	PSI
WELL TEMPERATURE:		100	'F
OPEN TOOL: 11:30 AM			

	TIME - GIVEN	TIME - ACTUAL
FIRST FLOW PRESSURE:	30 MIN	30 MIN
INITIAL CLOSED-IN PRESSURE:	30 MIN	27 MIN
SECOND FLOW PRESSURE:	60 MIN	60 MIN
FINAL CLOSED-IN PRESSURE:	90 MIN	87 MIN

PRESSURE BREAKDOWN

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