

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE: 10/31/83
CUSTOMER: W.L.KIRKMAN
WELL: 1
ELEVATION (KB): 2451
SECTION: 1
RANGE: 29W
GAUGE SN #1566

TEST: 1

FORMATION:
TOWNSHIP: 34S

COUNTY: MEADE
RANGE: 4300

TICKET #3030
LEASE: BORCHERS
GEOLOGIST: KISSCLE
STATE: KANSAS
CLOCK: 12

INTERVAL TEST FROM: 5144 FT TO: 5194 FT TOTAL DEPTH: 5194 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 5139 FT SIZE: 6 5/8 IN PACKER DEPTH: 5144 FT SIZE: 6 5/8 IN
PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: ALDEBARAN #4
MUD TYPE: CHEM VISCOSITY: 48
WEIGHT: 9.2 WATER LOSS (CC): 12.0
CHLORIDES (P.P.M.): 4500

JARS - MAKE: SERIAL NUMBER:
DID WELL FLOW? NO REVERSED OUT? NO

DRILL COLLAR LENGTH: 501 FT I.D.: 2.2 IN
WEIGHT PIPE LENGTH: 19 FT I.D.: 2.2 IN
DRILL PIPE LENGTH: 4622 FT I.D.: 3.8 IN
TEST TOOL LENGTH: 21 FT TOOL SIZE: 5 1/2 O.D. IN
ANCHOR LENGTH: 31 FT SIZE: 5 1/2 O.D. 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 1" BLOW THEN
DEAD IN 28 MINUTES.
FINAL FLOW PERIOD NO BLOW.

RECOVERED: 100 FT OF: DRLG 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:
RECOVERED: FT OF:

REMARKS:

TIME SET PACKER(S): 7:30 P.M.

TIME STARTED OFF BOTTOM: 9:25 P.M.

WELL TEMPERATURE: 123 °F

INITIAL HYDROSTATIC PRESSURE:

INITIAL FLOW PERIOD MIN: 30

INITIAL CLOSED IN PERIOD MIN: 63

FINAL FLOW PERIOD MIN: 10

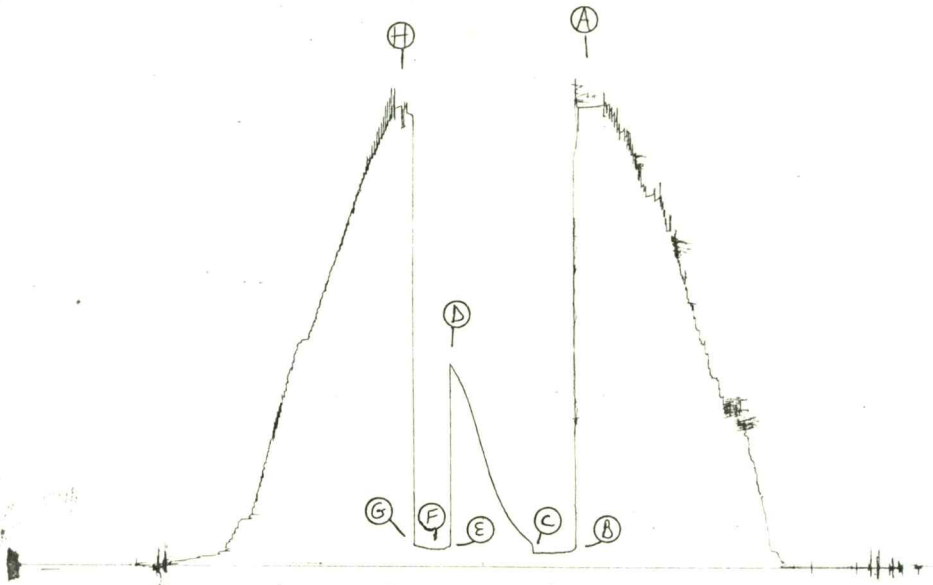
FINAL CLOSED IN PERIOD MIN: 15

FINAL HYDROSTATIC PRESSURE

(A) 2548 PSI
(B) 81 PSI TO (C) 81 PSI
(D) 1118 PSI
(E) 99 PSI TO (F) 99 PSI
(G) 120 PSI
(H) 2538 PSI

TKT # 3030

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WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE: 11/1/83
CUSTOMER: W.L.KIRKMAN
WELL: 1
ELEVATION (KB): 2451
SECTION: 1
RANGE: 29W
GAUGE SN #1566

TICKET #3031
LEASE: BORCHERS
GEOLOGIST: KISSCLE
TEST: 2
FORMATION:
TOWNSHIP: 34S
COUNTY: MEADE
STATE: KANSAS
RANGE: 4300
CLOCK: 12

INTERVAL TEST FROM: 5221 FT TO: 5250 FT TOTAL DEPTH: 5250 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 5216 FT SIZE: 6 5/8 IN PACKER DEPTH: 5221 FT SIZE: 6 5/8 IN
PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: ALDEBARAN #4
MUD TYPE: CHEM VISCOSITY: 48
WEIGHT: 9.1 WATER LOSS (CC): 10.8
CHLORIDES (P.P.M.): 6500

JARS - MAKE: SERIAL NUMBER:
DID WELL FLOW? NO REVERSED OUT? NO
DRILL COLLAR LENGTH: 532 FT I.D.: 2.2 IN
WEIGHT PIPE LENGTH: FT I.D.: IN
DRILL PIPE LENGTH: 4668 FT I.D.: 3.8 IN
TEST TOOL LENGTH: 21 FT TOOL SIZE: 5 1/2 O.D. IN
ANCHOR LENGTH: 29 FT SIZE: 5 1/2 O.D. 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 & FINAL FLOW PERIODS STRONG.
GAS CAME TO SURFACE IN FINAL FLOW.

RECOVERED: 220	FT	OF: 30% DRLG MUD; 45% OIL; 25% GAS
RECOVERED: 130	FT	OF: GASSY MUDDY WATER; WITH SLIGHT OIL STAIN.
RECOVERED: 400	FT	OF: GASSY SALT WATER.
RECOVERED:	FT	OF: CHLORIDES 100000 P.P.M.
RECOVERED:	FT	OF:
RECOVERED:	FT	OF:
RECOVERED:	FT	OF:
RECOVERED:	FT	OF:
RECOVERED:	FT	OF:

REMARKS: TOOL SLIDE 4'.

TIME SET PACKER(S): 3:00 P.M.
WELL TEMPERATURE: 129 °F

TIME STARTED OFF BOTTOM: 6:00 P.M.

INITIAL HYDROSTATIC PRESSURE:	(A) 2582	PSI
INITIAL FLOW PERIOD MIN: 30	(B) 134	PSI TO (C) 188 PSI
INITIAL CLOSED IN PERIOD MIN: 63	(D) 1506	PSI
FINAL FLOW PERIOD MIN: 30	(E) 319	PSI TO (F) 348 PSI
FINAL CLOSED IN PERIOD MIN: 60	(G) 1425	PSI
FINAL HYDROSTATIC PRESSURE	(H) 2566	PSI

WESTERN TESTING CO., INC.
PRESSURE DATA

DATE: 11/1/83
CUSTOMER: W.L.KIRKMAN
WELL: 1
ELEVATION (KB): 2451
SECTION: 1
RANGE: 29W
GAUGE SN #1566

TEST: 2
COUNTY: MEADE
RANGE: 4300

TICKET #3031
LEASE: BORCHERS
GEOLOGIST: KISSCLE
FORMATION:
TOWNSHIP: 34S
STATE: KANSAS
CLOCK: 12

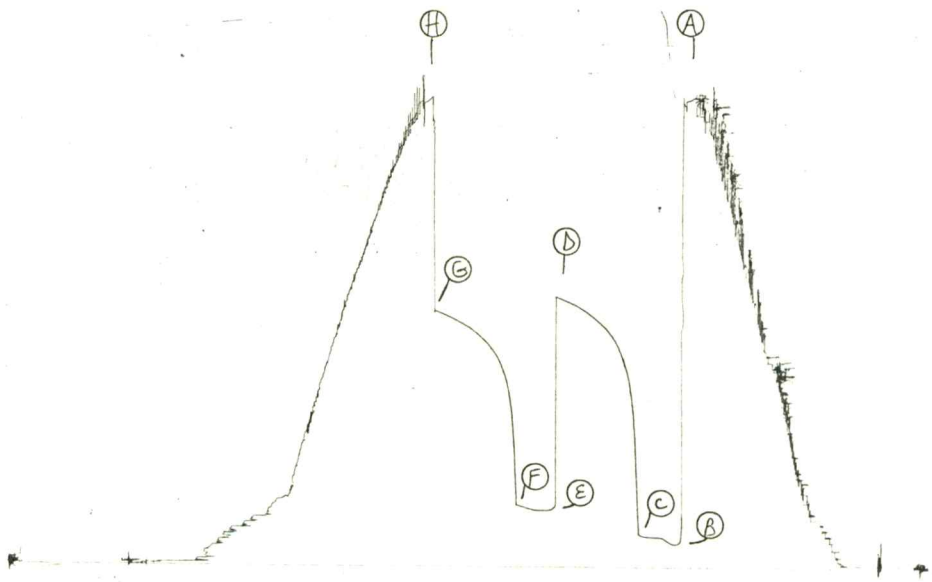
(A) INITIAL HYDROSTATIC PRESSURE: 2582 PSI
(B) FIRST INITIAL FLOW PRESSURE: 134 PSI
(C) FIRST FINAL FLOW PRESSURE: 188 PSI
(D) INITIAL CLOSED-IN PRESSURE: 1506 PSI
(E) SECOND INITIAL FLOW PRESSURE: 319 PSI
(F) SECOND FINAL FLOW PRESSURE: 348 PSI
(G) FINAL CLOSED-IN PRESSURE: 1425 PSI
(H) FINAL HYDROSTATIC PRESSURE: 2566 PSI
WELL TEMPERATURE: 129 °F
OPEN TOOL: 3:00 P.M.

	TIME - GIVEN	TIME - ACTUAL
FIRST FLOW PRESSURE:	30 MIN	30 MIN
INITIAL CLOSED-IN PRESSURE:	60 MIN	63 MIN
SECOND FLOW PRESSURE:	30 MIN	30 MIN
FINAL CLOSED-IN PRESSURE:	60 MIN	60 MIN

PRESSURE BREAKDOWN								
PT	FIRST FLOW		INITIAL SHUT-IN		SECOND FLOW		FINAL SHUT-IN	
	MIN	PRESSURE	MIN	PRESSURE	MIN	PRESSURE	MIN	PRESSURE
1	0	134	0	188	0	319	0	348
2	5	134	3	766	5	319	3	880
3	10	149	6	966	10	319	6	1015
4	15	172	9	1079	15	321	9	1090
5	20	175	12	1152	20	330	12	1142
6	25	177	15	1205	25	342	15	1184
7	30	188	18	1253	30	348	18	1216
8			21	1287			21	1243
9			24	1315			24	1266
10			27	1342			27	1288
11			30	1366			30	1306
12			33	1385			33	1325
13			36	1403			36	1341
14			39	1420			39	1355
15			42	1435			42	1367
16			45	1448			45	1379
17			48	1460			48	1390
18			51	1471			51	1400
19			54	1482			54	1410
20			57	1493			57	1418
21			60	1501			60	1425
22			63	1506				
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TKT: # 3031

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WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE: 11/4/83
CUSTOMER: W. L. KIRKMAN INC.
WELL: 1 TEST: 3
ELEVATION (KB): 2451 FORMATION: MISSISSIPPI
SECTION: 1 TOWNSHIP: 34S
RANGE: 29W COUNTY: MEADE STATE: KANSAS
GAUGE SN #1566 RANGE: 4300 CLOCK: 12

INTERVAL TEST FROM: 5800 FT TO: 5856 FT TOTAL DEPTH: 5856 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 5795 FT SIZE: 6 5/8 IN PACKER DEPTH: 5800 FT SIZE: 6 5/8 IN
PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: ALDEBERAN #4
MUD TYPE: CHEMICAL VISCOSITY: 48
WEIGHT: 9.2 WATER LOSS (CC): 9.8
CHLORIDES (P.P.M.): 5000
JARS - MAKE: NO SERIAL NUMBER:
DID WELL FLOW? NO REVERSED OUT? NO
DRILL COLLAR LENGTH: 501 FT I.D.: 2.2 IN
WEIGHT PIPE LENGTH: FT I.D.: IN
DRILL PIPE LENGTH: 5278 FT I.D.: 3.8 IN
TEST TOOL LENGTH: 21 FT TOOL SIZE: 5 1/2 O.D. IN
ANCHOR LENGTH: 31DC + 25 FT SIZE: 5 1/2 O.D. 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 IN

BLOW: 2" BUILDING TO STRONG - GAS TO SURFACE IN
24 MINUTES - INITIAL FLOW PERIOD.
SEE GAS FLOW REPORT.

RECOVERED: 200 FT OF: DRILLING MUD
RECOVERED: FT OF:
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REMARKS:

TIME SET PACKER(S): 3:30 P.M. TIME STARTED OFF BOTTOM: 7:30 P.M.
WELL TEMPERATURE: 134 °F
INITIAL HYDROSTATIC PRESSURE: (A) 2875 PSI
INITIAL FLOW PERIOD MIN: 35 (B) 93 PSI TO (C) 93 PSI
INITIAL CLOSED IN PERIOD MIN: 63 (D) 1794 PSI
FINAL FLOW PERIOD MIN: 60 (E) 76 PSI TO (F) 95 PSI
FINAL CLOSED IN PERIOD MIN: 99 (G) 1909 PSI
FINAL HYDROSTATIC PRESSURE (H) 2833 PSI

WESTERN TESTING CO. INC.
PRESSURE DATA

DATE: 11/4/83

CUSTOMER: W. L. KIRKMAN INC.

TEST: 3

FORMATION: MISSISSIPPI

TOWNSHIP: 34S

COUNTY: MEADE

RANGE: 4300

TICKET #3032

LEASE: BORCHERS

GEOLOGIST: B. KISSICLE

MISSISSIPPI

345

STATE: KANSAS

CLOCK: 12

(A) INITIAL HYDROSTATIC PRESSURE: 2875 PSI

(B) FIRST INITIAL FLOW PRESSURE: 93 PSI

(C) FIRST FINAL FLOW PRESSURE: 93 PSI

(D) INITIAL CLOSED-IN PRESSURE: 1794 PSI

(E) SECOND INITIAL FLOW PRESSURE: 76 PSI

(F) SECOND FINAL FLOW PRESSURE: 95 PSI

(G) FINAL CLOSED-IN PRESSURE: 1909 PSI

(H) FINAL HYDROSTATIC PRESSURE: 2833 PSI

WELL TEMPERATURE: 134 °F

OPEN TOOL: 3:30 P.M.

TIME - GIVEN TIME - ACTUAL

FIRST FLOW PRESSURE: 30 MIN 35 MIN

INITIAL CLOSED-IN PRESSURE: 60 MIN 63 MIN

SECOND FLOW PRESSURE: 60 MIN 60 MIN

FINAL CLOSED-IN PRESSURE: 90 MIN 99 MIN

PRESSURE BREAKDOWN

[illegible]

PRESSURE BREAKDOWN - CONT. TICKET #3032

PT	FIRST FLOW		INITIAL SHUT-IN		SECOND FLOW		FINAL SHUT-IN	
	MIN	PRESSURE	MIN	PRESSURE	MIN	PRESSURE	MIN	PRESSURE
31							90	1885
32							93	1896
33							96	1906
34							99	1909
35								
36								
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WESTERN TESTING CO. INC.
GAS FLOW REPORT

DATE: 11/4/83
CUSTOMER: W. L. KIRKMAN INC.
WELL: 1
ELEVATION (KB): 2451
SECTION: 1
RANGE: 29W
GAUGE SN #1566

TEST: 3
FORMATION: MISSISSIPPI
TOWNSHIP: 34S
COUNTY: MEADE
RANGE: 4300

TICKET #3032
LEASE: BORCHERS
GEOLOGIST: B. KISSICLE
STATE: KANSAS
CLOCK: 12

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

26				GAS TO SURFACE - INITIAL FLOW
30	MERLA	1/4	2 PSIG	12.700 CFPD

SECOND FLOW

5	MERLA	1/2	20 PSIG	177.000 CFPD
10		1/2	9 PSIG	108.000 CFPD
15		1/2	6 PSIG	86.300 CFPD
20		1/2	1 PSIG	33.900 CFPD
25		1/4	4 PSIG	18.500 CFPD
30		1/4	6 PSIG	22.900 CFPD
35		1/4	7 PSIG	25.000 CFPD
40		1/4	7 PSIG	25.000 CFPD
45		1/4	8 PSIG	27.000 CFPD
50		1/4	9 PSIG	29.000 CFPD
55		1/4	9.5 PSIG	29.900 CFPD
60		1/4	9.5 PSIG	29.900 CFPD

GAS BOTTLE SN #: 46
DATE BOTTLE FILLED: 11/4/83
DATE TO BE INVOICED: 11/4/83

TKT # 3032

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