

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE: 11/21/83 TICKET #2769
CUSTOMER: F. G. HOLL LEASE: HIRT
WELL: 1-29 TEST: 1 GEOLOGIST: W. BIDLEMAN
ELEVATION (KB): 1898 FORMATION: INDIAN CAVE
SECTION: 29 TOWNSHIP: 29S
RANGE: 12W COUNTY: PRATT STATE: KANSAS
GAUGE SN #13402 RANGE: 4025 CLOCK: 12

INTERVAL TEST FROM: 2796 FT TO: 2827 FT TOTAL DEPTH: 2827 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 2791 FT SIZE: 6 3/4 IN PACKER DEPTH: 2796 FT SIZE: 6 3/4 IN
PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: STERLING #2
MUD TYPE: STARCH VISCOSITY: 39
WEIGHT: 9.5 WATER LOSS (CC): 13.6
CHLORIDES (P.P.M.): 50000
JARS - MAKE: WTC SERIAL NUMBER: 406
DID WELL FLOW? NO REVERSED OUT?
DRILL COLLAR LENGTH: 300 FT I.D.: 2.2 IN
WEIGHT PIPE LENGTH: 420 FT I.D.: 3.2 IN
DRILL PIPE LENGTH: 2047 FT I.D.: 3.8 IN
TEST TOOL LENGTH: 29 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 X.H. IN

BLOW: STRONG - GAS TO SURFACE IN 13 MINUTES.
SEE GAS FLOW REPORT.

RECOVERED: 120 FT OF: GASSY MUD
RECOVERED: 60 FT OF: WATERY MUD
RECOVERED: 120 FT OF: WATER
RECOVERED: FT OF: CHLORIDES 88000 P.P.M.
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:

REMARKS:

TIME SET PACKER(S): 10:45 A.M. TIME STARTED OFF BOTTOM: 1:15 P.M.
WELL TEMPERATURE: 0 °F
INITIAL HYDROSTATIC PRESSURE: (A) 1414 PSI
INITIAL FLOW PERIOD MIN: 30 (B) 102 PSI TO (C) 179 PSI
INITIAL CLOSED IN PERIOD MIN: 30 (D) 991 PSI
FINAL FLOW PERIOD MIN: 60 (E) 211 PSI TO (F) 214 PSI
FINAL CLOSED IN PERIOD MIN: 30 (G) 966 PSI
FINAL HYDROSTATIC PRESSURE (H) 1386 PSI

WESTERN TESTING CO. INC.
GAS FLOW REPORT

DATE: 11/21/83
CUSTOMER: F. G. HOLL
WELL: 1-29
ELEVATION (KB): 1898
SECTION: 29
RANGE: 12W
GAUGE SN #13402

TEST: 1
COUNTY: PRATT
RANGE: 4025

TICKET #2769
LEASE: HIRT
GEOLOGIST: W. BIDLEMAN
FORMATION: INDIAN CAVE
TOWNSHIP: 29S
STATE: KANSAS
CLOCK: 12

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

13				GAS TO SURFACE
20	MERLA	1 1/4	5 PSIG	542000 CFPD
30		1 1/4	7 PSIG	653000 CFPD

SECOND FLOW

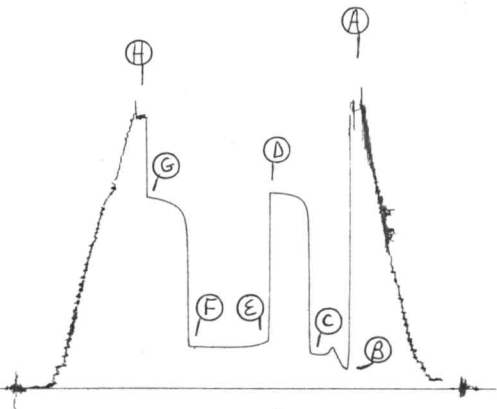
10	MERLA	1 1/4	12 PSIG	893000 CFPD
20		1 1/4	11 PSIG	847000 CFPD
30		1 1/4	11 PSIG	847000 CFPD
40		1 1/4	11 PSIG	847000 CFPD
50		1 1/4	11 PSIG	847000 CFPD
60		1 1/4	11 PSIG	847000 CFPD

GAS BOTTLE SN #:
DATE BOTTLE FILLED:
DATE TO BE INVOICED: 11/21/83

13402
DST #1

TKT # 2769

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WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE: 11/23/83 TICKET #2770
 CUSTOMER: F.G.HOLL LEASE: HIRT
 WELL: #1-29 TEST: 2 GEOLOGIST: BIDDLEMAN
 ELEVATION (KB): 1898 FORMATION: DOUGLAS SAND
 SECTION: 29 TOWNSHIP: 29S
 RANGE: 12W COUNTY: PRATT STATE: KANSAS
 GAUGE SN #13402 RANGE: 4025 CLOCK: 12

INTERVAL TEST FROM: 3755 FT TO: 3828 FT TOTAL DEPTH: 3828 FT
 DEPTH OF SELECTIVE ZONE: FT
 PACKER DEPTH: 3750 FT SIZE: 6 3/4 IN PACKER DEPTH: 3755 FT SIZE: 6 3/4 IN
 PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: STERLING #2
 MUD TYPE: CHEM VISCOSITY: 35
 WEIGHT: 9.2 WATER LOSS (CC): N/C
 CHLORIDES (P.P.M.): 28000
 JARS - MAKE: W.T.C. SERIAL NUMBER: 406
 DID WELL FLOW? NO REVERSED OUT? NO
 DRILL COLLAR LENGTH: 300 FT I.D.: 2.2 IN
 WEIGHT PIPE LENGTH: 420 FT I.D.: 3.2 IN
 DRILL PIPE LENGTH: 2962 FT I.D.: 3.8 IN
 TEST TOOL LENGTH: 29 FT TOOL SIZE: 5 1/2 O.D. IN
 ANCHOR LENGTH: 73 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 WEAK SLOWLY
 BUILDING TO FAIR. FINAL FLOW PERIOD
 FAIR BLOW THROUGHOUT.

RECOVERED: 90 FT OF: MUD; FEW SPECKS OF OIL
 RECOVERED: 60 FT OF: WATERY MUD
 RECOVERED: 120 FT OF: WATER.
 RECOVERED: FT OF: CHLORIDES 48000 P.P.M.
 RECOVERED: FT OF:
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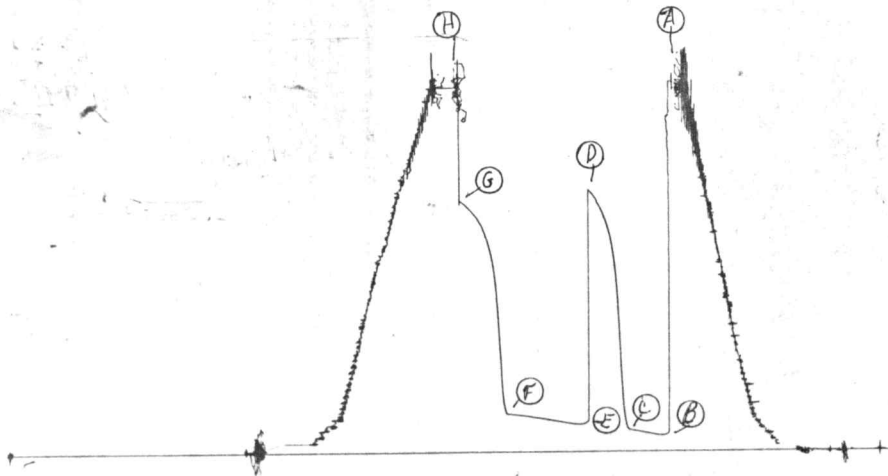
REMARKS:

TIME SET PACKER(S): 5:40 A.M. TIME STARTED OFF BOTTOM: 7:10 A.M.
 WELL TEMPERATURE: 114 °F
 INITIAL HYDROSTATIC PRESSURE: (A) 1890 PSI
 INITIAL FLOW PERIOD MIN: 30 (B) 82 PSI TO (C) 112 PSI
 INITIAL CLOSED IN PERIOD MIN: 27 (D) 1330 PSI
 FINAL FLOW PERIOD MIN: 60 (E) 138 PSI TO (F) 193 PSI
 FINAL CLOSED IN PERIOD MIN: 33 (G) 1274 PSI
 FINAL HYDROSTATIC PRESSURE (H) 1860 PSI

1540x
DST #2

TKT # 2770

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WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE: 11/24/83
CUSTOMER: F.G.HOLL
WELL: #1-29
ELEVATION (KB): 0
SECTION: 29
RANGE: 12W
GAUGE SN #13402

TEST: 3
COUNTY: PRATT
RANGE: 4025

TICKET #2771
LEASE: HIRT
GEOLOGIST: BIDLEMAN
FORMATION: MASSY
TOWNSHIP: 29
STATE: KANSAS
CLOCK: 12

INTERVAL TEST FROM: 4300 FT TO: 4366 FT TOTAL DEPTH: 4366 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 4295 FT SIZE: 6 3/4 IN PACKER DEPTH: 4300 FT SIZE: 6 3/4 IN
PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: STERLING #2

MUD TYPE: CHEM VISCOSITY: 48
WEIGHT: 9.3 WATER LOSS (CC): 15.6
CHLORIDES (P.P.M.): 22000

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

DRILL COLLAR LENGTH: 300 FT I.D.: 2.2 IN
WEIGHT PIPE LENGTH: 420 FT I.D.: 3.2 IN
DRILL PIPE LENGTH: 3860 FT I.D.: 3.8 IN
TEST TOOL LENGTH: 20 FT TOOL SIZE: 5 1/2 O.D. IN
ANCHOR LENGTH: 66 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: BOTH INITIAL & FINAL FLOW PERIODS
HAD STRONG BLOWS THROUGHOUT.
GAS TO SURFACE IN 25 MINUTES.

RECOVERED: 120 FT OF: GAS CUT MUD.
RECOVERED: FT OF:
RECOVERED: FT OF:
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REMARKS:

TIME SET PACKER(S): 9:20 P.M.

TIME STARTED OFF BOTTOM: 11:50 P.M.

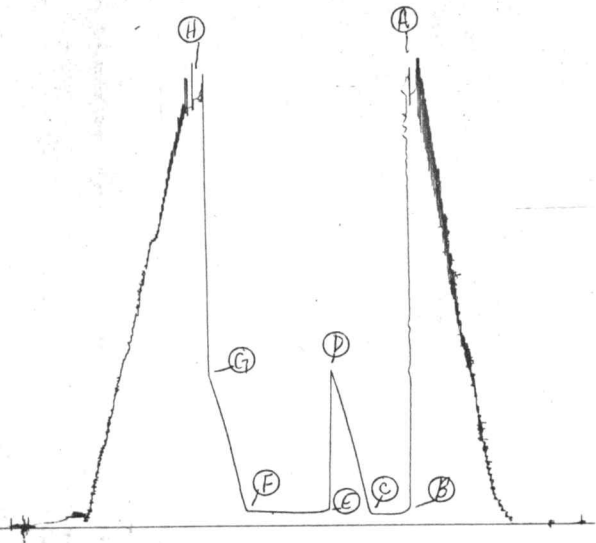
WELL TEMPERATURE: 118 °F

INITIAL HYDROSTATIC PRESSURE: (A) 2215 PSI
INITIAL FLOW PERIOD MIN: 30 (B) 56 PSI TO (C) 56 PSI
INITIAL CLOSED IN PERIOD MIN: 30 (D) 798 PSI
FINAL FLOW PERIOD MIN: 60 (E) 66 PSI TO (F) 79 PSI
FINAL CLOSED IN PERIOD MIN: 27 (G) 774 PSI
FINAL HYDROSTATIC PRESSURE (H) 2192 PSI

13402
DST # 3

JKT # 2771

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WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE: 11/25/83 TICKET #1919
CUSTOMER: F.G.HOLL LEASE: HIRT
WELL: #1-29 TEST: 4 GEOLOGIST: BIDLEMAN
ELEVATION (KB): 1898 FORMATION: VIOLA
SECTION: 29 TOWNSHIP: 29S
RANGE: 12W COUNTY: PRATT STATE: KANSAS
GAUGE SN #13547 RANGE: 4225 CLOCK: 12

INTERVAL TEST FROM: 4501 FT TO: 4514 FT TOTAL DEPTH: 4514 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 4496 FT SIZE: 6 5/8 IN PACKER DEPTH: 4501 FT SIZE: 6 5/8 IN
PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: STERLING #2
MUD TYPE: CHEMDRISPC VISCOSITY: 45
WEIGHT: 9.4 WATER LOSS (CC): 15.2
CHLORIDES (P.P.M.): 22000
JARS - MAKE: SERIAL NUMBER:
DID WELL FLOW? YES REVERSED OUT? YES
DRILL COLLAR LENGTH: 310 FT I.D.: 2.25 IN
WEIGHT PIPE LENGTH: 422 FT I.D.: 2.7 IN
DRILL PIPE LENGTH: 3748 FT I.D.: 3.8 IN
TEST TOOL LENGTH: 21 FT TOOL SIZE: 5 1/2 O.D. IN
ANCHOR LENGTH: 13 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 FH IN

BLOW: BOTH FLOW PERIODS HAD STRONG BLOWS
THROUGHOUT. GAS TO SURFACE IN
5 MINUTES.

RECOVERED: 2310 FT OF: CLEAN GASSY OIL. (GRAVITY 39)
RECOVERED: 120 FT OF: MUDDY GASSY OIL.
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
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RECOVERED: FT OF:

REMARKS:

TIME SET PACKER(S): 10:25 P.M. TIME STARTED OFF BOTTOM: 12:55 A.M.
WELL TEMPERATURE: 123 °F
INITIAL HYDROSTATIC PRESSURE: (A) 2210 PSI
INITIAL FLOW PERIOD MIN: 30 (B) 104 PSI TO (C) 297 PSI
INITIAL CLOSED IN PERIOD MIN: 27 (D) 1332 PSI
FINAL FLOW PERIOD MIN: 55 (E) 386 PSI TO (F) 583 PSI
FINAL CLOSED IN PERIOD MIN: 30 (G) 1251 PSI
FINAL HYDROSTATIC PRESSURE (H) 2146 PSI

WESTERN TESTING CO. INC.
GAS FLOW REPORT

DATE: 11/25/83
CUSTOMER: F.G.HOLL
WELL: #1-29
ELEVATION (KB): 1898
SECTION: 29
RANGE: 12W
GAUGE SN #13547

TEST: 4
COUNTY: PRATT
RANGE: 4225

TICKET #1919
LEASE: HIRT
GEOLOGIST: BIDLEMAN
FORMATION: VIOLA
TOWNSHIP: 29S
STATE: KANSAS
CLOCK: 12

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

5				GAS TO SURFACE IN 5 MINUTES.
10	MERLA	1 1/2	7" WTR	184000 CFPD
20		1	8" WTR	73100 CFPD
30		1	1" WTR	25800 CFPD

SECOND FLOW

5	MERLA	1/2	16" WTR	25100 CFPD
10		1/2	10" WTR	19900 CFPD
20		1/2	6" WTR	15400 CFPD
30		1/2	2" WTR	8870 CFPD
40		1/4	24" WTR	8220 CFPD
50		1/4	20" WTR	7510 CFPD
60		1/4	18" WTR	7120 CFPD

GAS BOTTLE SN #:
DATE BOTTLE FILLED:
DATE TO BE INVOICED:

TCR# 1919

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