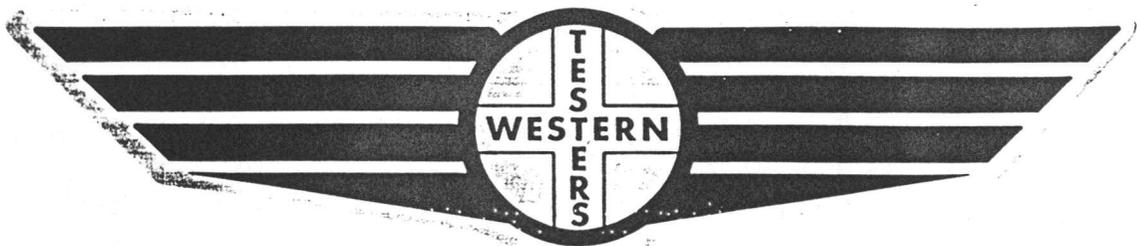


FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

COMPANY A. L. ABERCROMBIE INC. LEASE & WELL NO. #6 RAZEK "A" SEC. 12 TWP. 12S RGE. 23W TEST NO. 1 DATE 3/18/87

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE : 3-18-87
CUSTOMER : A. L. ABERCROMBIE INC.
WELL : #6 TEST: 1
ELEVATION : 2396 GL
SECTION : 12
RANGE : 23W COUNTY : TREGO
GAUGE SN# : 5666 RANGE : 3950
TICKET : 12434
LEASE : RAZEK 'A'
GEOLOGIST : M. GAYLON
FORMATION : -
TOWNSHIP : 12S
STATE : KANSAS
CLOCK : 12

INTERVAL FROM : 3665 TO : 3696 TOTAL DEPTH : 3696
DEPTH OF SELECTIVE ZONE :
PACKER DEPTH : 3660 SIZE : 6.63
PACKER DEPTH : 3665 SIZE : 6.63
PACKER DEPTH : SIZE :
PACKER DEPTH : SIZE :

DRILLING CON. : COMPANY TOOLS RIG #1
MUD TYPE : STARCH VISCOSITY : 46
WEIGHT : 9.5 WATER LOSS (CC) : 10.4
CHLORIDES (PPM) : 40000
JARS-MAKE : - SERIAL NUMBER :
DID WELL FLOW ? : - REVERSED OUT ? : YES

DRILL COLLAR LENGTH : 0 FT I.D. inch : 0.00
WEIGHT PIPE LENGTH : 390 FT I.D. inch : 2.75
DRILL PIPE LENGTH : 3255 FT I.D. inch : 3.80
TEST TOOL LENGTH : 20 FT TOOL SIZE : 5.50
ANCHOR LENGTH : 31 FT ANCHOR SIZE : 5.50
SURFACE CHOKE SIZE : .75 IN BOTTOM CHOKE SIZE : .75
MAIN HOLE SIZE : 7.875 IN TOOL JOINT SIZE : 4.5 XH

BLOW COMMENT #1 : INITIAL FLOW-STRONG BLOW-BOTTOM OF BUCKET IN
4 MINUTES.
BLOW COMMENT #2 : FINAL FLOW-STRONG BLOW-BOTTOM OF BUCKET IN 5 MINUTES
BLOW COMMENT #3 :
BLOW COMMENT #4 :

RECOVERED : 1850 FT OF: OIL & GAS CUT WATER
5% OIL
CHLORIDES: 35000 PPM

Total Barrels Fluid = 23.34
Total Fluid Prod Rate = 395.46 BFPD
Indicated Oil Rate = 19.67 BOPD
Indicated Wtr Rate = 363.83 BWPD

REMARK 1 :
REMARK 2 :
REMARK 3 :
REMARK 4 :

| | | | |
|-------------------------------|----------|---------------------------|----------------------|
| SET PACKER(S) : | 10:15 AM | TIME STARTED OFF BOTTOM : | 1:15 AM |
| WELL TEMPERATURE : | 116 | | |
| INITIAL HYDROSTATIC PRESSURE | | (A) | 1928 |
| INITIAL FLOW PERIOD MIN: | 30 | (B) | 202 PSI TO (C) : 491 |
| INITIAL CLOSED IN PERIOD MIN: | 45 | (D) | 938 |
| FINAL FLOW PERIOD MIN: | 55 | (E) | 615 PSI TO (F) : 846 |
| FINAL CLOSED IN PERIOD MIN: | 48 | (G) | 941 |
| FINAL HYDROSTATIC PRESSURE | | (H) | 1864 |

WESTERN TESTING CO. INC.
WICHITA - KANSAS

Pressure Transient Report

COMPANY : A. L. ABERCROMBIE INC.
RIG : TREGO-KANSAS
FIELD : RAZEK 'A'
WELL : #6
DATE : 3-18-87
GAUGE NO : 5666

OPERATIONAL COMMENTS

COMPANY : A. L. ABERCROMBIE INC.
 WELL : #6
 GAUGE # : 5666
 DATE : 18/ 3/87

FIELD : RAZEK 'A'
 JOB # : 12434
 DEPTH : 3696
 TEST :

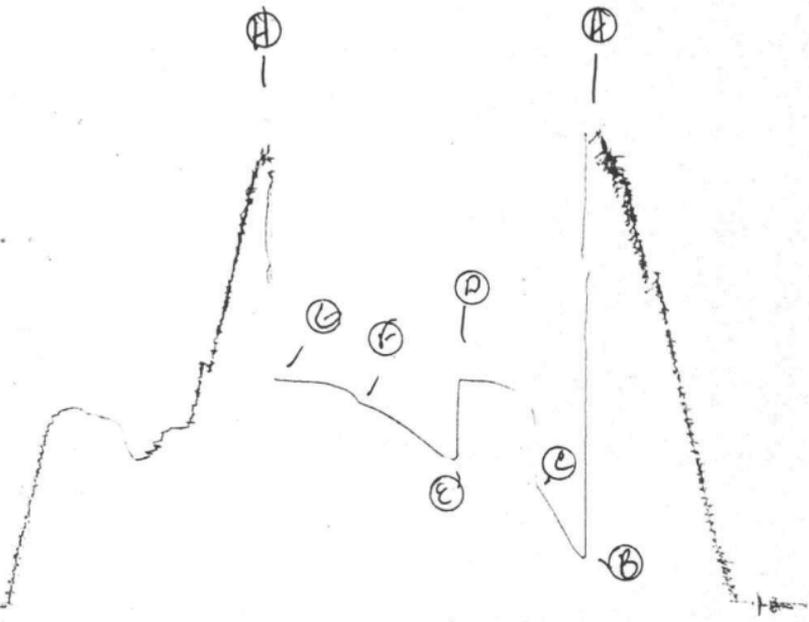
| DATA No. | REAL TIME HR:MN:SS | ELAPSE TIME DELTA HOURS | PRESSURE PSIG | TEMP DEG F | DELTA P $P_i - P_{(i-1)}$ |
|----------|--------------------|-------------------------|---------------|------------|---------------------------|
| 1 | 10:15: 0 | 0.000 | 202.000 | 116.00 | 0.000 |
| 2 | 10:19:59 | 0.083 | 222.000 | 116.00 | 20.000 |
| 3 | 10:25: 0 | 0.167 | 281.000 | 116.00 | 59.000 |
| 4 | 10:30: 0 | 0.250 | 346.000 | 116.00 | 65.000 |
| 5 | 10:34:59 | 0.333 | 410.000 | 116.00 | 64.000 |
| 6 | 10:40: 0 | 0.417 | 467.000 | 116.00 | 57.000 |
| 7 | 10:45: 0 | 0.500 | 491.000 | 116.00 | 24.000 |
| 8 | 10:48: 0 | 0.550 | 810.000 | 116.00 | 319.000 |
| 9 | 10:51: 0 | 0.600 | 840.000 | 116.00 | 30.000 |
| 10 | 10:54: 0 | 0.650 | 862.000 | 116.00 | 22.000 |
| 11 | 10:57: 0 | 0.700 | 882.000 | 116.00 | 20.000 |
| 12 | 11: 0: 0 | 0.750 | 894.000 | 116.00 | 12.000 |
| 13 | 11: 3: 0 | 0.800 | 904.000 | 116.00 | 10.000 |
| 14 | 11: 6: 0 | 0.850 | 912.000 | 116.00 | 8.000 |
| 15 | 11: 9: 0 | 0.900 | 920.000 | 116.00 | 8.000 |
| 16 | 11:12: 0 | 0.950 | 928.000 | 116.00 | 8.000 |
| 17 | 11:15: 0 | 1.000 | 932.000 | 116.00 | 4.000 |
| 18 | 11:18: 0 | 1.050 | 934.000 | 116.00 | 2.000 |
| 19 | 11:21: 0 | 1.100 | 935.000 | 116.00 | 1.000 |
| 20 | 11:24: 0 | 1.150 | 936.000 | 116.00 | 1.000 |
| 21 | 11:27: 0 | 1.200 | 937.000 | 116.00 | 1.000 |
| 22 | 11:30: 0 | 1.250 | 938.000 | 116.00 | 1.000 |
| 23 | 11:31: 0 | 1.267 | 615.000 | 116.00 | -323.000 |
| 24 | 11:34:59 | 1.333 | 615.000 | 116.00 | 0.000 |
| 25 | 11:40: 0 | 1.417 | 630.000 | 116.00 | 15.000 |
| 26 | 11:45: 0 | 1.500 | 657.000 | 116.00 | 27.000 |
| 27 | 11:49:59 | 1.583 | 687.000 | 116.00 | 30.000 |
| 28 | 11:55: 0 | 1.667 | 715.000 | 116.00 | 28.000 |
| 29 | 12: 0: 0 | 1.750 | 745.000 | 116.00 | 30.000 |
| 30 | 12: 4:59 | 1.833 | 766.000 | 116.00 | 21.000 |
| 31 | 12:10: 0 | 1.917 | 788.000 | 116.00 | 22.000 |
| 32 | 12:15: 0 | 2.000 | 808.000 | 116.00 | 20.000 |
| 33 | 12:19:59 | 2.083 | 826.000 | 116.00 | 18.000 |
| 34 | 12:25: 0 | 2.167 | 846.000 | 116.00 | 20.000 |
| 35 | 12:28: 0 | 2.217 | 876.000 | 116.00 | 30.000 |
| 36 | 12:31: 0 | 2.267 | 892.000 | 116.00 | 16.000 |
| 37 | 12:34: 0 | 2.317 | 902.000 | 116.00 | 10.000 |
| 38 | 12:37: 0 | 2.367 | 910.000 | 116.00 | 8.000 |
| 39 | 12:40: 0 | 2.417 | 918.000 | 116.00 | 8.000 |
| 40 | 12:43: 0 | 2.467 | 924.000 | 116.00 | 6.000 |
| 41 | 12:46: 0 | 2.517 | 928.000 | 116.00 | 4.000 |
| 42 | 12:49: 0 | 2.567 | 930.000 | 116.00 | 2.000 |
| 43 | 12:52: 0 | 2.617 | 932.000 | 116.00 | 2.000 |
| 44 | 12:55: 0 | 2.667 | 934.000 | 116.00 | 2.000 |
| 45 | 12:58: 0 | 2.717 | 936.000 | 116.00 | 2.000 |
| 46 | 13: 1: 0 | 2.767 | 937.000 | 116.00 | 1.000 |
| 47 | 13: 4: 0 | 2.817 | 938.000 | 116.00 | 1.000 |
| 48 | 13: 7: 0 | 2.867 | 939.000 | 116.00 | 1.000 |
| 49 | 13:10: 0 | 2.917 | 940.000 | 116.00 | 1.000 |
| 50 | 13:13: 0 | 2.967 | 941.000 | 116.00 | 1.000 |

Kit # 12434

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TRT # 12434

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5666 X

FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

COMPANY A.L. ABERCROMBIE, INC. LEASE & WELL NO. #6 RAZEK "A" SEC. 12 TWP. 12S RGE. 23W TEST NO. 2 DATE 3/20/87

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE : 3-20-87 TICKET : 12435
CUSTOMER : A.L. ABERCROMBIE INC. LEASE : RAZEK 'A'
WELL : #6 TEST: 2 GEOLOGIST : M. GAYLON
ELEVATION : 2396 GL FORMATION : MARMATON
SECTION : 12 TOWNSHIP : 12S
RANGE : 23W COUNTY : TREGO STATE : KANSAS
GAUGE SN# : 13547 RANGE : 4200 CLOCK : 12

INTERVAL FROM : 3977 TO : 4020 TOTAL DEPTH : 4020
DEPTH OF SELECTIVE ZONE :
PACKER DEPTH : 3972 SIZE : 6.63
PACKER DEPTH : 3977 SIZE : 6.63
PACKER DEPTH : SIZE :
PACKER DEPTH : SIZE :

DRILLING CON. : COMPANY TOOLS
MUD TYPE : STARCH VISCOSITY : 46
WEIGHT : 9.4 WATER LOSS (CC) : 12
CHLORIDES (PPM) : 30000
JARS-MAKE : - SERIAL NUMBER : -
DID WELL FLOW ? : - REVERSED OUT ? : -

DRILL COLLAR LENGTH : 0 FT I.D. inch : 0.00
WEIGHT PIPE LENGTH : 390 FT I.D. inch : 2.75
DRILL PIPE LENGTH : 3567 FT I.D. inch : 3.80
TEST TOOL LENGTH : 20 FT TOOL SIZE : 5.50
ANCHOR LENGTH : 43 FT ANCHOR SIZE : 5.50
SURFACE CHOKE SIZE : .75 IN BOTTOM CHOKE SIZE : .75
MAIN HOLE SIZE : 7.875 IN TOOL JOINT SIZE : 4.5 XH

BLOW COMMENT #1 : INITIAL FLOW-WEAK BLOW-1" IN BUCKET.
BLOW COMMENT #2 : FINAL FLOW-WEAK BLOW-1" IN BUCKET-DECREASING TO
WEAK SURFACE BLOW.
BLOW COMMENT #3 :
BLOW COMMENT #4 :

RECOVERED : 65 FT OF: MUD-FEW OIL SPECKS

Total Barrels Fluid = 0.48
Total Fluid Prod Rate = 7.64 BFPD
Indicated Wtr Rate = 6.88 BWPD

REMARK 1 :
REMARK 2 : 5# OF LOSS CIRC. MATERIAL
REMARK 3 : MISRUN-PLUGGED TOOL
REMARK 4 :

| | | | |
|-------------------------------|---------|---------------------------|----------------------|
| SET PACKER(S) : | 7:10 AM | TIME STARTED OFF BOTTOM : | 10:40 AM |
| WELL TEMPERATURE : | 116 | | |
| INITIAL HYDROSTATIC PRESSURE | | (A) | 2086 |
| INITIAL FLOW PERIOD MIN: | 30 | (B) | 107 PSI TO (C) : 107 |
| INITIAL CLOSED IN PERIOD MIN: | 60 | (D) | 424 |
| FINAL FLOW PERIOD MIN: | 60 | (E) | 81 PSI TO (F) : 81 |
| FINAL CLOSED IN PERIOD MIN: | 60 | (G) | 441 |
| FINAL HYDROSTATIC PRESSURE | | (H) | 2025 |

WESTERN TESTING CO. INC.
WICHITA - KANSAS

Pressure Transient Report

COMPANY : A.L. ABERCROMBIE INC.
RIG : TREGO-KANSAS
FIELD : RAZEK 'A'
WELL : #6
DATE : 3-20-87
GAUGE NO : 13547

OPERATIONAL COMMENTS

5# OF LOSS CIRC. MATERIAL
MISRUN-PLUGGED TOOL

COMPANY : A.L. ABERCROMBIE INC.
 WELL : #6
 GAUGE # : 13547
 DATE : 20/ 3/87

FIELD : RAZEK 'A'
 JOB # : 12435
 DEPTH : 4020
 TEST :

| DATA No. | REAL TIME HR:MN:SS | ELAPSE TIME DELTA HOURS | PRESSURE PSIG | TEMP DEG F | DELTA P Pi-P(i-1) |
|----------|--------------------|-------------------------|---------------|------------|-------------------|
| 1 | 7:10:0 | 0.000 | 107.000 | 116.00 | 0.000 |
| 2 | 7:14:59 | 0.083 | 107.000 | 116.00 | 0.000 |
| 3 | 7:20:0 | 0.167 | 107.000 | 116.00 | 0.000 |
| 4 | 7:25:0 | 0.250 | 107.000 | 116.00 | 0.000 |
| 5 | 7:29:59 | 0.333 | 107.000 | 116.00 | 0.000 |
| 6 | 7:35:0 | 0.417 | 107.000 | 116.00 | 0.000 |
| 7 | 7:40:0 | 0.500 | 107.000 | 116.00 | 0.000 |
| 8 | 7:43:0 | 0.550 | 379.000 | 116.00 | 272.000 |
| 9 | 7:46:0 | 0.600 | 397.000 | 116.00 | 18.000 |
| 10 | 7:49:0 | 0.650 | 406.000 | 116.00 | 9.000 |
| 11 | 7:52:0 | 0.700 | 413.000 | 116.00 | 7.000 |
| 12 | 7:55:0 | 0.750 | 419.000 | 116.00 | 6.000 |
| 13 | 7:58:0 | 0.800 | 420.000 | 116.00 | 1.000 |
| 14 | 8:01:0 | 0.850 | 421.000 | 116.00 | 1.000 |
| 15 | 8:04:0 | 0.900 | 422.000 | 116.00 | 1.000 |
| 16 | 8:07:0 | 0.950 | 423.000 | 116.00 | 1.000 |
| 17 | 8:10:0 | 1.000 | 423.000 | 116.00 | 0.000 |
| 18 | 8:13:0 | 1.050 | 423.000 | 116.00 | 0.000 |
| 19 | 8:16:0 | 1.100 | 423.000 | 116.00 | 0.000 |
| 20 | 8:19:0 | 1.150 | 423.000 | 116.00 | 0.000 |
| 21 | 8:22:0 | 1.200 | 423.000 | 116.00 | 0.000 |
| 22 | 8:25:0 | 1.250 | 423.000 | 116.00 | 0.000 |
| 23 | 8:28:0 | 1.300 | 424.000 | 116.00 | 1.000 |
| 24 | 8:31:0 | 1.350 | 424.000 | 116.00 | 0.000 |
| 25 | 8:34:0 | 1.400 | 424.000 | 116.00 | 0.000 |
| 26 | 8:37:0 | 1.450 | 424.000 | 116.00 | 0.000 |
| 27 | 8:40:0 | 1.500 | 424.000 | 116.00 | 0.000 |
| 28 | 8:41:0 | 1.517 | 81.000 | 116.00 | -343.000 |
| 29 | 8:44:59 | 1.583 | 81.000 | 116.00 | 0.000 |
| 30 | 8:50:0 | 1.667 | 81.000 | 116.00 | 0.000 |
| 31 | 8:55:0 | 1.750 | 81.000 | 116.00 | 0.000 |
| 32 | 8:59:59 | 1.833 | 81.000 | 116.00 | 0.000 |
| 33 | 9:05:0 | 1.917 | 81.000 | 116.00 | 0.000 |
| 34 | 9:10:0 | 2.000 | 81.000 | 116.00 | 0.000 |
| 35 | 9:14:59 | 2.083 | 81.000 | 116.00 | 0.000 |
| 36 | 9:20:0 | 2.167 | 81.000 | 116.00 | 0.000 |
| 37 | 9:25:0 | 2.250 | 81.000 | 116.00 | 0.000 |
| 38 | 9:29:59 | 2.333 | 81.000 | 116.00 | 0.000 |
| 39 | 9:35:0 | 2.417 | 81.000 | 116.00 | 0.000 |
| 40 | 9:40:0 | 2.500 | 81.000 | 116.00 | 0.000 |
| 41 | 9:43:0 | 2.550 | 394.000 | 116.00 | 313.000 |
| 42 | 9:46:0 | 2.600 | 405.000 | 116.00 | 11.000 |
| 43 | 9:49:0 | 2.650 | 418.000 | 116.00 | 13.000 |
| 44 | 9:52:0 | 2.700 | 424.000 | 116.00 | 6.000 |
| 45 | 9:55:0 | 2.750 | 432.000 | 116.00 | 8.000 |
| 46 | 9:58:0 | 2.800 | 436.000 | 116.00 | 4.000 |
| 47 | 10:01:0 | 2.850 | 437.000 | 116.00 | 1.000 |
| 48 | 10:04:0 | 2.900 | 438.000 | 116.00 | 1.000 |
| 49 | 10:07:0 | 2.950 | 439.000 | 116.00 | 1.000 |
| 50 | 10:10:0 | 3.000 | 440.000 | 116.00 | 1.000 |
| 51 | 10:13:0 | 3.050 | 441.000 | 116.00 | 1.000 |
| 52 | 10:16:0 | 3.100 | 441.000 | 116.00 | 0.000 |

COMPANY : A.L. ABERCROMBIE INC.
WELL : #6
GAUGE # : 13547
DATE : 20/ 3/87

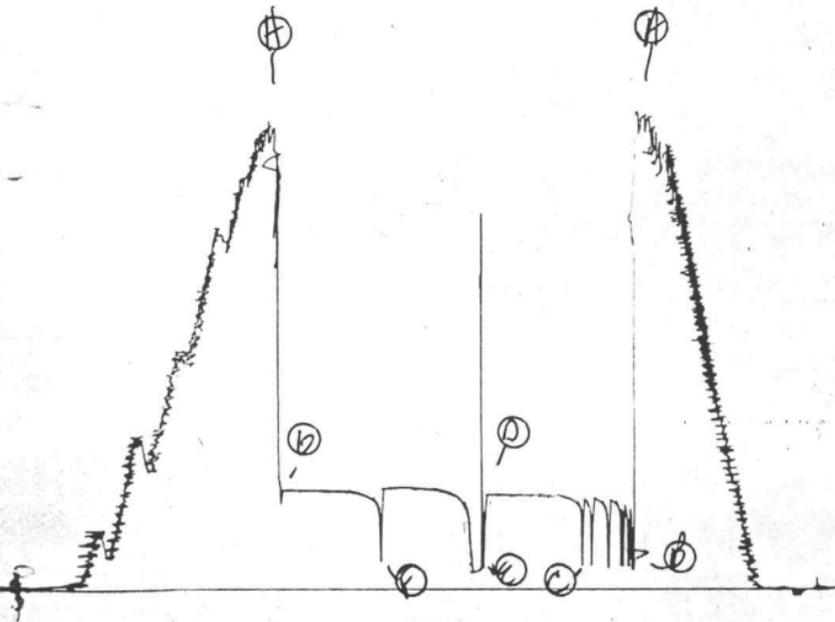
FIELD : RAZEK 'A'
JOB # : 12435
DEPTH : 4020
TEST :

| DATA No. | REAL TIME HR:MN:SS | ELAPSE TIME DELTA HOURS | PRESSURE PSIG | TEMP DEG F | DELTA P P _i -P _(i-1) |
|-------------|-----------------------|----------------------------|------------------|---------------|---|
| 53 | 10:19: 0 | 3.150 | 441.000 | 116.00 | 0.000 |
| 54 | 10:22: 0 | 3.200 | 441.000 | 116.00 | 0.000 |
| 55 | 10:25: 0 | 3.250 | 441.000 | 116.00 | 0.000 |
| 56 | 10:28: 0 | 3.300 | 441.000 | 116.00 | 0.000 |
| 57 | 10:31: 0 | 3.350 | 441.000 | 116.00 | 0.000 |
| 58 | 10:34: 0 | 3.400 | 441.000 | 116.00 | 0.000 |
| 59 | 10:37: 0 | 3.450 | 441.000 | 116.00 | 0.000 |
| 60 | 10:40: 0 | 3.500 | 441.000 | 116.00 | 0.000 |

WESTERN TESTING CO. INC.

OK # 12435

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