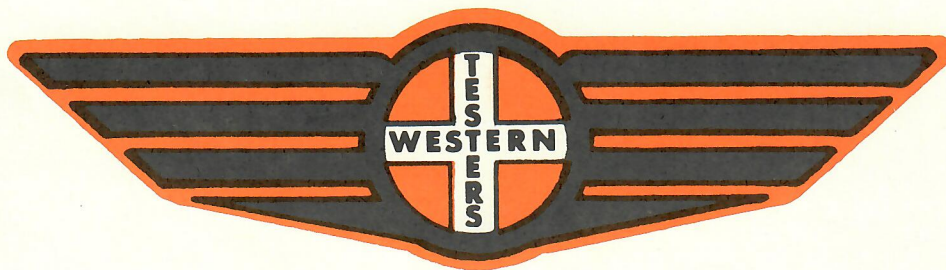




FORMATION TEST REPORT



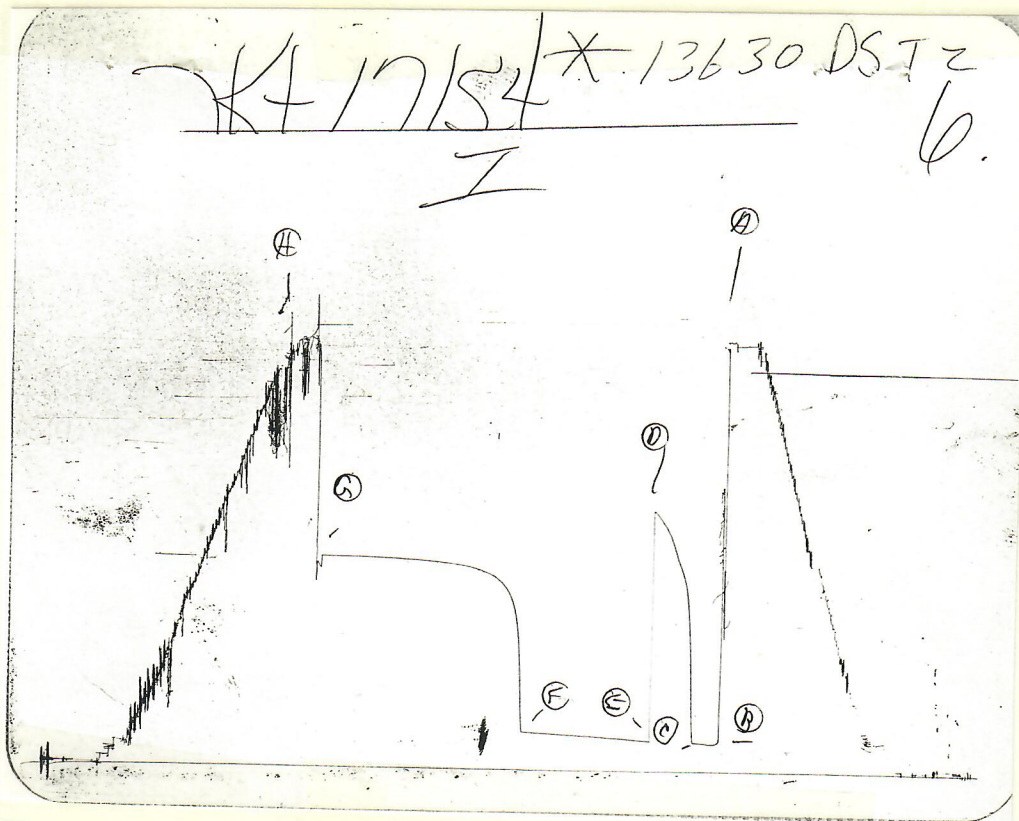
Home Office:

Wichita, Kansas 67201

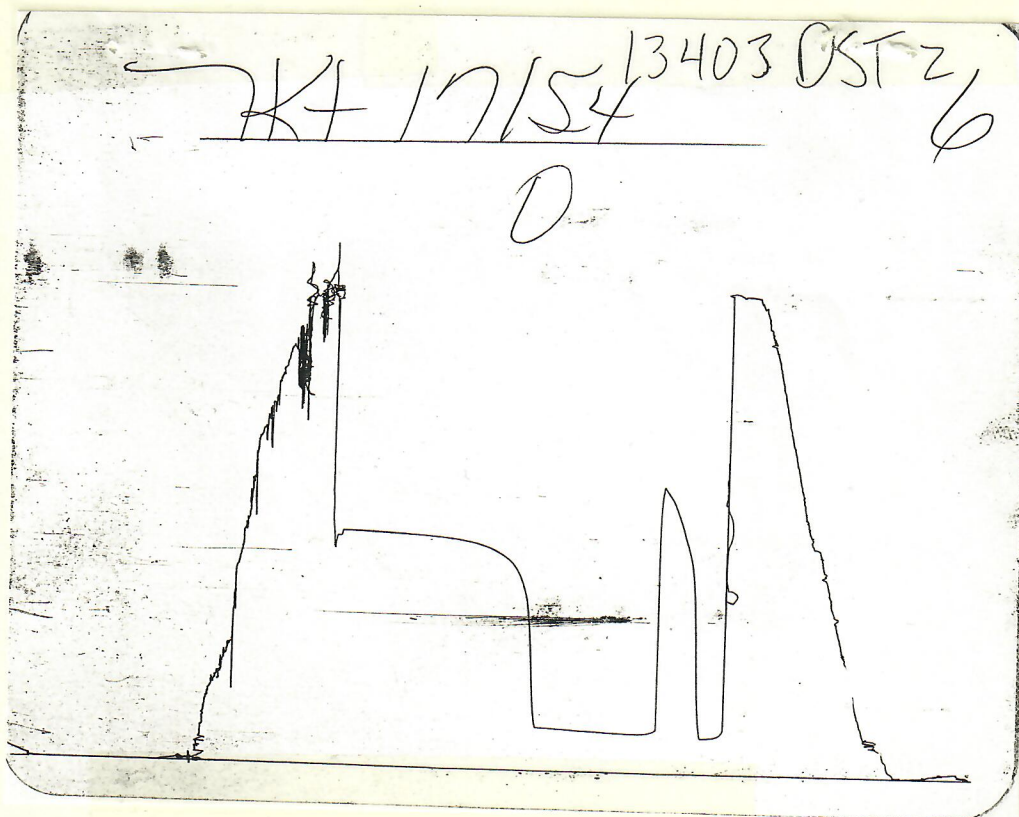
P.O. Box 1599

Phone (316) 262-5861

BEST IMAGE
AVAILABLE



Inside Recorder



BEST IMAGE
AVAILABLE

Outside Recorder

FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

COMPANY SINCLAIR OIL CORPORATION

LEASE & WELL NO. HADSON-HECK #7-13

SEC. 13 TWP. 25S RGE. 44W

TEST NO. 2

DATE 2/10/91

BEST IMAGE
AVAILABLE

BEST IMAGE
AVAILABLE

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE : 2-10-91 TICKET : 17154
CUSTOMER : SINCLAIR OIL CORPORATION LEASE : HADSON-HECK
WELL : 7-13 TEST: 2 GEOLOGIST : ?
ELEVATION : 3784 GR FORMATION :
SECTION : 13 TOWNSHIP : 25S
RANGE : 44W COUNTY : PROWERS STATE : COLORADO
GAUGE SN# : 13630 RANGE : 4625 CLOCK : 12

INTERVAL FROM : 5354 TO : 5426 TOTAL DEPTH : 5426
DEPTH OF SELECTIVE ZONE :
PACKER DEPTH : 5349 SIZE : 7.5
PACKER DEPTH : 5354 SIZE : 7.5
PACKER DEPTH : SIZE :
PACKER DEPTH : SIZE :

DRILLING CON. : MURFIN RIG 25
MUD TYPE : CHEMICAL VISCOSITY : 50
WEIGHT : 9.0 WATER LOSS (CC) : 8.6
CHLORIDES (PPM) : 1000
JARS-MAKE : W.T.C. SERIAL NUMBER : 407
DID WELL FLOW ? : NO REVERSED OUT ? : NO

DRILL COLLAR LENGTH : 420 FT I.D. inch : 2.50
WEIGHT PIPE LENGTH : 0 FT I.D. inch : 0.00
DRILL PIPE LENGTH : 4903 FT I.D. inch : 3.80
TEST TOOL LENGTH : 31 FT TOOL SIZE : 5.50
ANCHOR LENGTH : 72 FT ANCHOR SIZE : 5.25
SURFACE CHOKE SIZE : .75 IN BOTTOM CHOKE SIZE : .75
MAIN HOLE SIZE : 8.75 IN TOOL JOINT SIZE : 4.5XH

BLOW COMMENT #1 : INITIAL FLOW PERIOD WEAK TO VERY WEAK BLOW.
BLOW COMMENT #2 : FINAL FLOW PERIOD NO BLOW THROUGHOUT.
BLOW COMMENT #3 :
BLOW COMMENT #4 :

RECOVERED : 380 FT OF: MUD

Total Barrels Fluid = 2.31
Total Fluid Prod Rate = 28.89 BFPD
Indicated Wtr Rate = 0.29 BWPD

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

SET PACKER(S) : 10:50 P.M.

WELL TEMPERATURE : 142

INITIAL HYDROSTATIC PRESSURE

INITIAL FLOW PERIOD MIN: 20

INITIAL CLOSED IN PERIOD MIN: 33

FINAL FLOW PERIOD MIN: 95

FINAL CLOSED IN PERIOD MIN: 150

FINAL HYDROSTATIC PRESSURE

TIME STARTED OFF BOTTOM : 3:40 A.M.

(A) 2560

(B) 166

(D) 1541

(E) 178

(G) 1248

(H) 2542

PSI TO (C) : 172

PSI TO (F) : 222

WESTERN TESTING CO. INC.
WICHITA-KANSAS

Pressure Transient Report

COMPANY : SINCLAIR OIL CORPORATION
RIG : PROWERS-COLORADO
FIELD : HADSON-HECK
WELL : 7-13
DATE : 2-10-91
GAUGE NO : 13630

OPERATIONAL COMMENTS

COMPANY : SINCLAIR OIL CORPORATION
WELL : 7-13
GAUGE # : 13630
DATE : 10/ 2/91

FIELD : HADSON-HECK
JOB # : 17154
DEPTH : 5426
TEST :

| DATA No. | REAL TIME HR:MN:SS | ELAPSE TIME DELTA HOURS | PRESSURE PSIG | TEMP DEG F | DELTA P Pi-P(i-1) |
|------------------------|-----------------------|----------------------------|------------------|---------------|----------------------|
| INITIAL FLOW PERIOD | | | | | |
| 2 | 10:50: 0 | 0.000 | 166.000 | 142.00 | 0.000 |
| 3 | 10:54:59 | 0.083 | 166.000 | 142.00 | 0.000 |
| 4 | 11: 0: 0 | 0.167 | 166.000 | 142.00 | 0.000 |
| 5 | 11: 5: 0 | 0.250 | 170.000 | 142.00 | 4.000 |
| 6 | 11: 9:59 | 0.333 | 172.000 | 142.00 | 2.000 |
| INITIAL SHUT-IN PERIOD | | | | | |
| 7 | 11:12:59 | 0.383 | 669.000 | 142.00 | 497.000 |
| 8 | 11:15:59 | 0.433 | 1018.000 | 142.00 | 349.000 |
| 9 | 11:18:59 | 0.483 | 1158.000 | 142.00 | 140.000 |
| 10 | 11:21:59 | 0.533 | 1226.000 | 142.00 | 68.000 |
| 11 | 11:24:59 | 0.583 | 1294.000 | 142.00 | 68.000 |
| 12 | 11:27:59 | 0.633 | 1366.000 | 142.00 | 72.000 |
| 13 | 11:30:59 | 0.683 | 1417.000 | 142.00 | 51.000 |
| 14 | 11:33:59 | 0.733 | 1456.000 | 142.00 | 39.000 |
| 15 | 11:36:59 | 0.783 | 1492.000 | 142.00 | 36.000 |
| 16 | 11:39:59 | 0.833 | 1523.000 | 142.00 | 31.000 |
| 17 | 11:42:59 | 0.883 | 1541.000 | 142.00 | 18.000 |
| FINAL FLOW PERIOD | | | | | |
| 18 | 11:44: 0 | 0.900 | 178.000 | 142.00 | -1363.000 |
| 19 | 11:47:59 | 0.967 | 179.000 | 142.00 | 1.000 |
| 20 | 11:53: 0 | 1.050 | 181.000 | 142.00 | 2.000 |
| 21 | 11:57:59 | 1.133 | 185.000 | 142.00 | 4.000 |
| 22 | 12: 2:59 | 1.217 | 188.000 | 142.00 | 3.000 |
| 23 | 12: 8: 0 | 1.300 | 191.000 | 142.00 | 3.000 |
| 24 | 12:12:59 | 1.383 | 194.000 | 142.00 | 3.000 |
| 25 | 12:17:59 | 1.467 | 196.000 | 142.00 | 2.000 |
| 26 | 12:23: 0 | 1.550 | 198.000 | 142.00 | 2.000 |
| 27 | 12:27:59 | 1.633 | 201.000 | 142.00 | 3.000 |
| 28 | 12:32:59 | 1.717 | 204.000 | 142.00 | 3.000 |
| 29 | 12:38: 0 | 1.800 | 207.000 | 142.00 | 3.000 |
| 30 | 12:42:59 | 1.883 | 209.000 | 142.00 | 2.000 |
| 31 | 12:47:59 | 1.967 | 211.000 | 142.00 | 2.000 |
| 32 | 12:53: 0 | 2.050 | 213.000 | 142.00 | 2.000 |
| 33 | 12:57:59 | 2.133 | 215.000 | 142.00 | 2.000 |
| 34 | 13: 2:59 | 2.217 | 218.000 | 142.00 | 3.000 |
| 35 | 13: 8: 0 | 2.300 | 220.000 | 142.00 | 2.000 |
| 36 | 13:12:59 | 2.383 | 221.000 | 142.00 | 1.000 |
| 37 | 13:17:59 | 2.467 | 222.000 | 142.00 | 1.000 |
| FINAL SHUT-IN PERIOD | | | | | |
| 38 | 13:20:59 | 2.517 | 574.000 | 142.00 | 352.000 |
| 39 | 13:23:59 | 2.567 | 880.000 | 142.00 | 306.000 |
| 40 | 13:26:59 | 2.617 | 982.000 | 142.00 | 102.000 |
| 41 | 13:29:59 | 2.667 | 1043.000 | 142.00 | 61.000 |
| 42 | 13:32:59 | 2.717 | 1078.000 | 142.00 | 35.000 |
| 43 | 13:35:59 | 2.767 | 1106.000 | 142.00 | 28.000 |
| 44 | 13:38:59 | 2.817 | 1125.000 | 142.00 | 19.000 |
| 45 | 13:41:59 | 2.867 | 1141.000 | 142.00 | 16.000 |
| 46 | 13:44:59 | 2.917 | 1153.000 | 142.00 | 12.000 |
| 47 | 13:47:59 | 2.967 | 1164.000 | 142.00 | 11.000 |
| 48 | 13:50:59 | 3.017 | 1174.000 | 142.00 | 10.000 |

BEST IMAGE
AVAILABLE

COMPANY : SINCLAIR OIL CORPORATION
WELL : 7-13
GAUGE # : 13630
DATE : 10/ 2/91

FIELD : HADSON-HECK
JOB # : 17154
DEPTH : 5426
TEST :

| DATA No. | REAL TIME HR:MN:SS | ELAPSE TIME DELTA HOURS | PRESSURE PSIG | TEMP DEG F | DELTA P Pi-P(i-1) |
|-------------|-----------------------|----------------------------|------------------|---------------|----------------------|
| 49 | 13:53:59 | 3.067 | 1182.000 | 142.00 | 8.000 |
| 50 | 13:56:59 | 3.117 | 1188.000 | 142.00 | 6.000 |
| 51 | 13:59:59 | 3.167 | 1194.000 | 142.00 | 6.000 |
| 52 | 14: 2:59 | 3.217 | 1201.000 | 142.00 | 7.000 |
| 53 | 14: 5:59 | 3.267 | 1205.000 | 142.00 | 4.000 |
| 54 | 14: 8:59 | 3.317 | 1209.000 | 142.00 | 4.000 |
| 55 | 14:11:59 | 3.367 | 1212.000 | 142.00 | 3.000 |
| 56 | 14:14:59 | 3.417 | 1215.000 | 142.00 | 3.000 |
| 57 | 14:17:59 | 3.467 | 1218.000 | 142.00 | 3.000 |
| 58 | 14:20:59 | 3.517 | 1221.000 | 142.00 | 3.000 |
| 59 | 14:23:59 | 3.567 | 1223.000 | 142.00 | 2.000 |
| 60 | 14:26:59 | 3.617 | 1225.000 | 142.00 | 2.000 |
| 61 | 14:29:59 | 3.667 | 1226.000 | 142.00 | 1.000 |
| 62 | 14:32:59 | 3.717 | 1227.000 | 142.00 | 1.000 |
| 63 | 14:35:59 | 3.767 | 1228.000 | 142.00 | 1.000 |
| 64 | 14:38:59 | 3.817 | 1229.000 | 142.00 | 1.000 |
| 65 | 14:41:59 | 3.867 | 1231.000 | 142.00 | 2.000 |
| 66 | 14:44:59 | 3.917 | 1233.000 | 142.00 | 2.000 |
| 67 | 14:47:59 | 3.967 | 1235.000 | 142.00 | 2.000 |
| 68 | 14:50:59 | 4.017 | 1237.000 | 142.00 | 2.000 |
| 69 | 14:53:59 | 4.067 | 1238.000 | 142.00 | 1.000 |
| 70 | 14:56:59 | 4.117 | 1239.000 | 142.00 | 1.000 |
| 71 | 14:59:59 | 4.167 | 1240.000 | 142.00 | 1.000 |
| 72 | 15: 2:59 | 4.217 | 1241.000 | 142.00 | 1.000 |
| 73 | 15: 5:59 | 4.267 | 1242.000 | 142.00 | 1.000 |
| 74 | 15: 8:59 | 4.317 | 1243.000 | 142.00 | 1.000 |
| 75 | 15:11:59 | 4.367 | 1243.000 | 142.00 | 0.000 |
| 76 | 15:14:59 | 4.417 | 1244.000 | 142.00 | 1.000 |
| 77 | 15:17:59 | 4.467 | 1244.000 | 142.00 | 0.000 |
| 78 | 15:20:59 | 4.517 | 1245.000 | 142.00 | 1.000 |
| 79 | 15:23:59 | 4.567 | 1245.000 | 142.00 | 0.000 |
| 80 | 15:26:59 | 4.617 | 1246.000 | 142.00 | 1.000 |
| 81 | 15:29:59 | 4.667 | 1246.000 | 142.00 | 0.000 |
| 82 | 15:32:59 | 4.717 | 1247.000 | 142.00 | 1.000 |
| 83 | 15:35:59 | 4.767 | 1247.000 | 142.00 | 0.000 |
| 84 | 15:38:59 | 4.817 | 1248.000 | 142.00 | 1.000 |
| 85 | 15:41:59 | 4.867 | 1248.000 | 142.00 | 0.000 |
| 86 | 15:44:59 | 4.917 | 1248.000 | 142.00 | 0.000 |
| 87 | 15:47:59 | 4.967 | 1248.000 | 142.00 | 0.000 |

WESTERN TESTING CO. INC.

BEST IMAGE
AVAILABLE

FLUID SAMPLE REPORT

Date : 2-10-91 Ticket No. : 17154
 Company : SINCLAIR OIL CORP.
 Well Name & No. : HADSON-HECK 7-13
 DST No. 2
 County : PROWERS State : COLORADO
 Sampler No. : 201 Test Interval : 5354-5426

=====

| | | | | | |
|-------------------------|-----------|------|-----|-----|-------|
| Pressure in Sampler | 0 | PSIG | BHT | 142 | Deg F |
| Total Volume of Sampler | : 2500 | | cc | | |
| Total Volume of Sample | : 1750 | | cc | | |
| | Oil: | | cc | | |
| | Water: | | cc | | |
| | Mud: 1750 | | cc | | |
| | Gas: | cu | ft | | |
| | Other: | | cc | | |

=====

RESITIVITY

| | | | | |
|--------------------|---|---------|------------------|----------|
| Drilling Mud | @ | F | Chloride Content | ppm |
| Mud Pit Sample 4.5 | @ | 59 F | Chloride Content | 1600 ppm |
| Gas/Oil Ratio | | Gravity | API @ | Deg F |

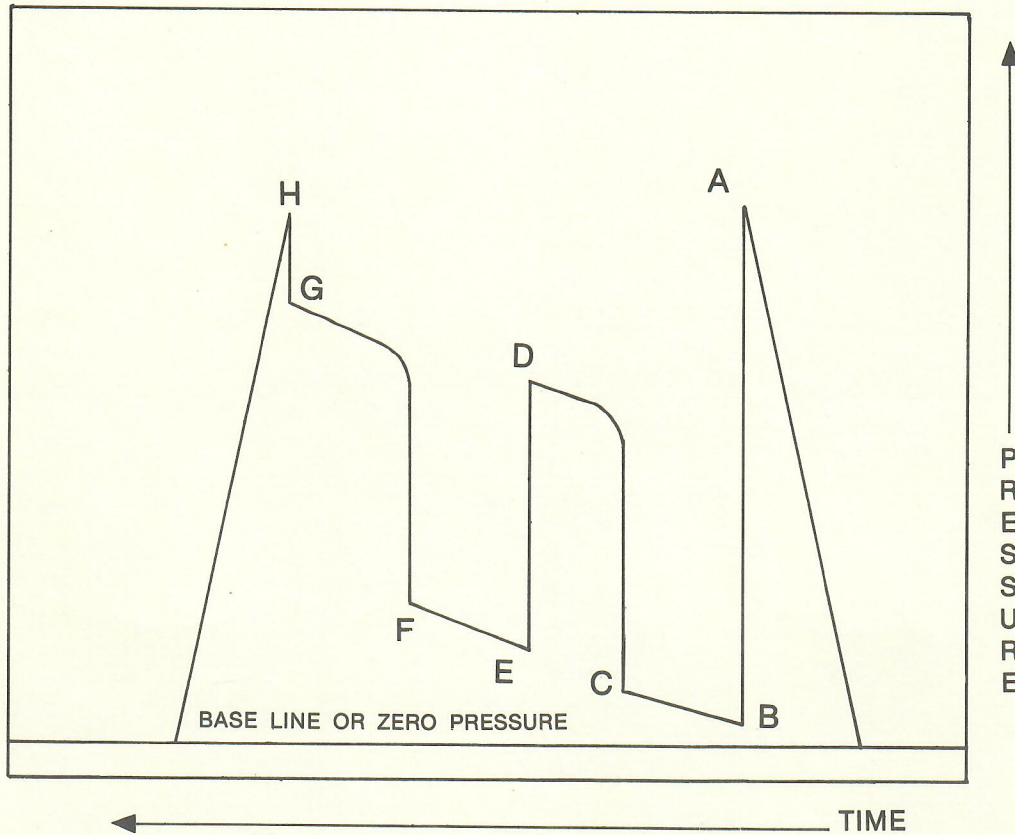
Where was sample drained ON LOCATION

Remarks:

COMPANY TERMS

Western Testing Co., Inc. shall not be liable for damages of any kind to the property or personnel of the one for whom a test is made or for any loss suffered or sustained directly or indirectly through the use of its equipment, of its statements or opinion concerning the results of any test. Tools lost or damaged in the hole shall be paid at cost by the party for whom the test is made.

AK-1 Recorders



A - Initial Hydrostatic

B - First Initial Flow

C - First Final Flow

D - Initial Shut-In

E - Second Initial Flow

F - Second Final Flow

G - Final Shut-In

H - Final Hydrostatic