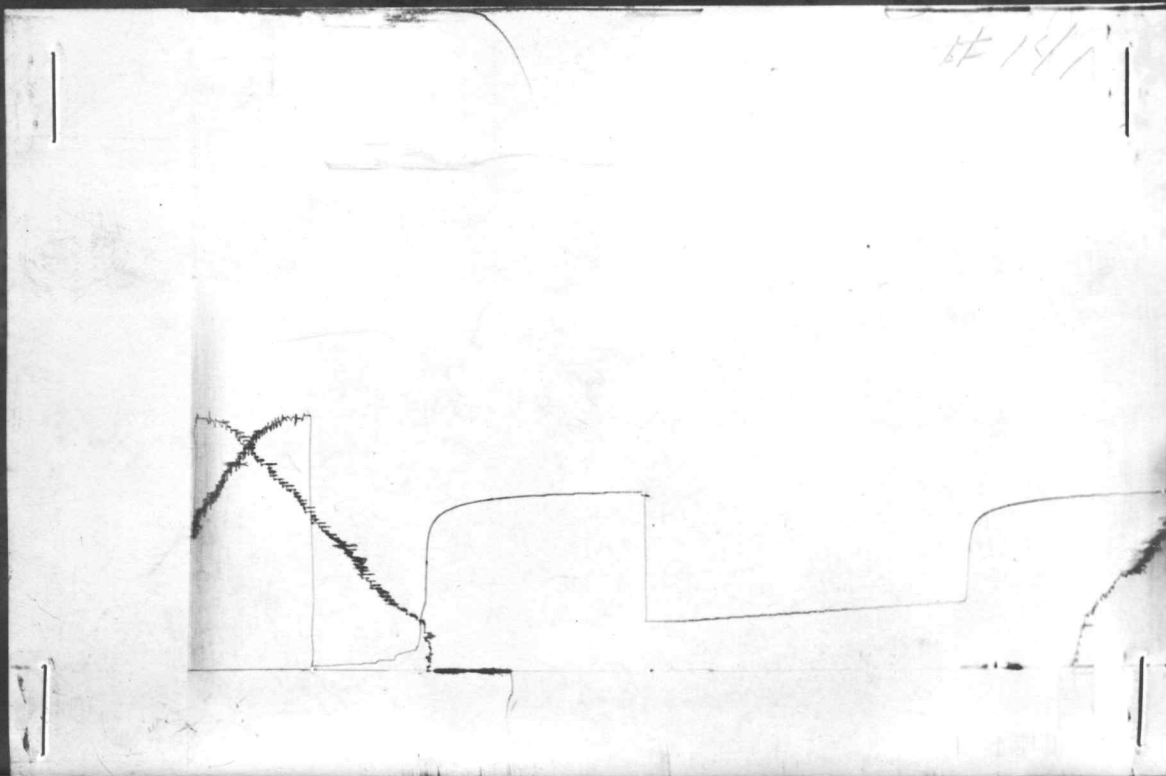


Date 4-28-70

Ticket No. 147



SAGE DRILL. CO.

Company AMERICAN-ASH-BELL

Contractor AMERICAN DRILL CO.

Well No. 1 Lease KNOX County GRAHAM Sec. 22 R. 10 Twp. 25

Test No. 1 Size Hole 7 7/8 Packer Size 6 3/4 Drill Pipe Size 4 1/2 FH.

Interval Tested From 3685 To 3713 Depth of Well 3713 Size Choke 1/2

Fluid Recovered In FLEXWEIGHT Temp 121 Elev.

Time	Pressure	PSI	Time	Pressure	PSI
First Initial Flow	1990	100	First Final Flow	1990	100
First Initial Flow Pressure	100	PSI	First Final Flow Pressure	100	PSI
First Final Flow Pressure	100	PSI	Initial Closed-in Pressure	1240	PSI
Initial Closed-in Pressure	1240	PSI	Second Initial Flow Pressure	445	PSI
Second Initial Flow Pressure	445	PSI	Second Final Flow Pressure	444	PSI
Second Final Flow Pressure	444	PSI	Final Closed-in Pressure	1240	PSI
Final Closed-in Pressure	1240	PSI			

Blow STRONG BLOW THRU-OUT TEST.

Recovery 540 FT. WATER.

Remarks

Approved By

DICK FOLEY

Tester

ED PHILBERN

DRILL STEM TEST RECOVERY REPORT

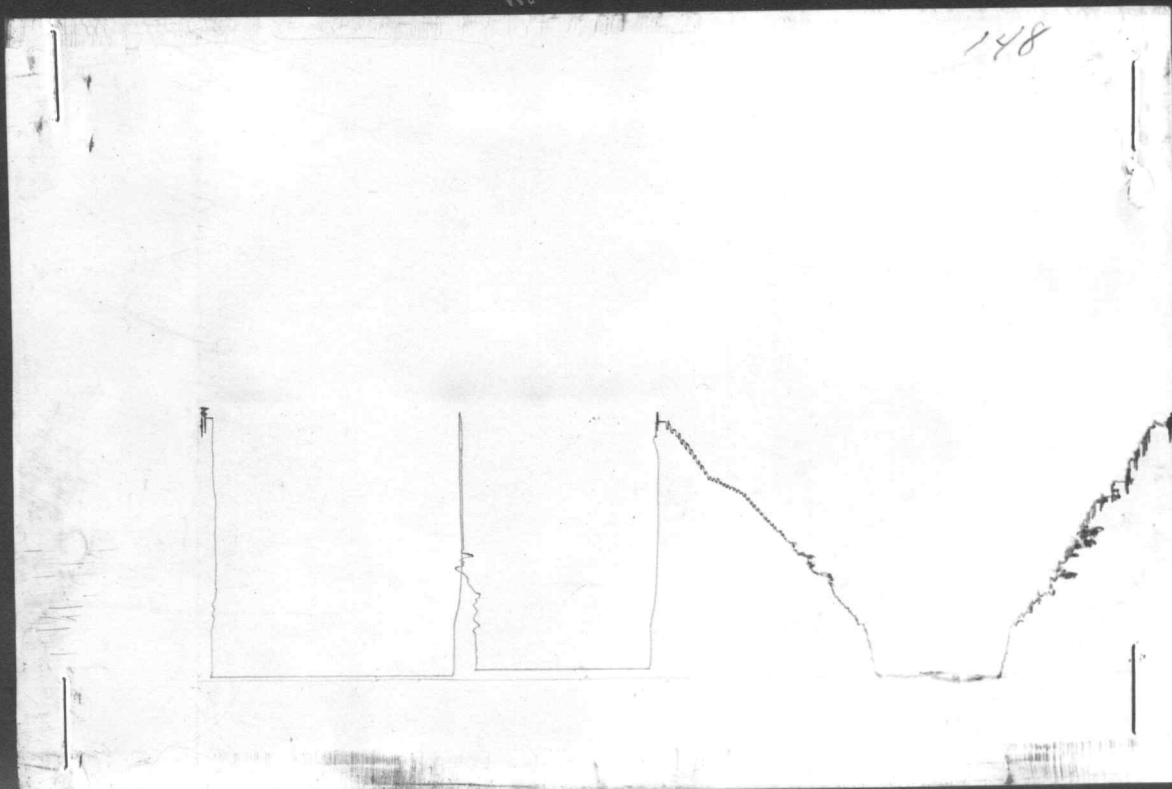
WILDCAT TESTING COMPANY

Route 1 Phone 793-0278
GREAT BEND, KANSAS



Date 4-28-70

Ticket No. 148



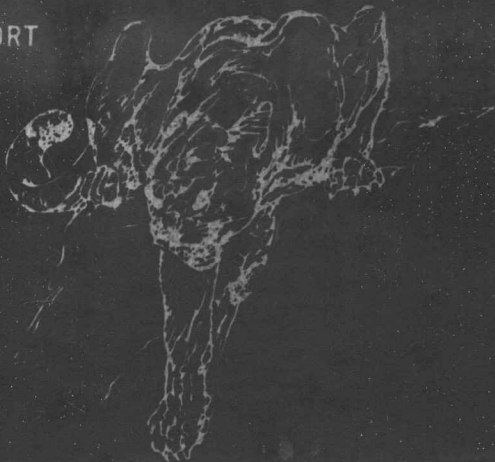
Company AMERICAN-ASH-BELL Contractor SAGE DRLG. CO.
Well No. 1 Lease KNOLL County GRAHAM Sec. 22 Rg. 10 Twp. 25
Test No. 2 Size Hole 7 7/8 Packer Size 6 3/4 Drill Pipe Size 4 1/2 PH.
Interval Tested From 3756 To 3784 Depth of Well 3784 Size Choke 1/2
Fluid Recovered In TE WEIGHT Temp. 117 Elev.
Initial Hyd. 2000 P.S.I. Final Hyd. 2000 P.S.I.
First Initial Flow Pressure 10 P.S.I. Opened Tool 10:33 A.M. P.M.
First Final Flow Pressure 10 P.S.I. First Flow Pres. 30 Min.
Initial Closed-in Pressure 10 P.S.I. Initial Closed-in Pres. 30 Min.
Second Initial Flow Pressure 20 P.S.I. Second Flow Pres. 30 Min.
Second Final Flow Pressure 20 P.S.I. Final Closed-in Pres. 30 Min.
Final Closed-in Pressure 20 P.S.I.
Blow WEAK BLOW FOR 7 MIN. FLUSH TOOL.
Recovery 5 FT. DRLG. MUD.

Remarks

Approved By DICK FOLEY Tester ED PHILBERN

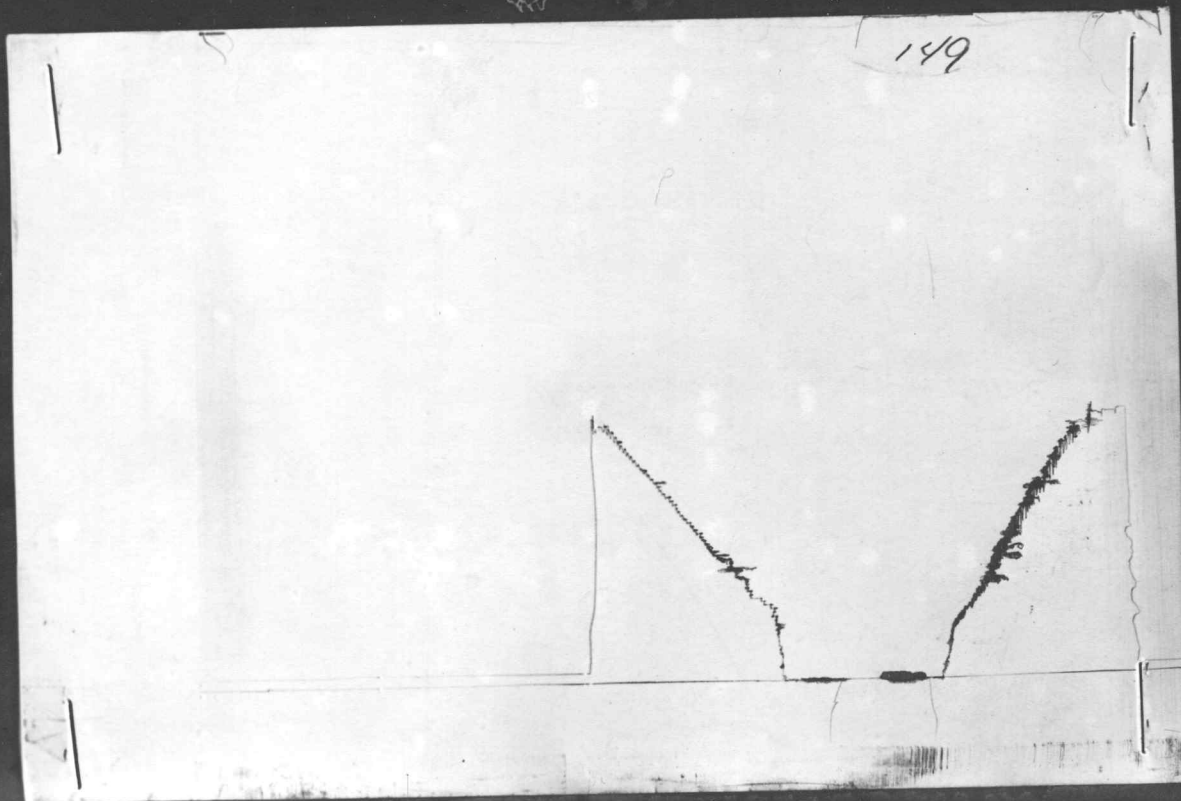
DRILL STEM TEST RECOVERY REPORT

WILDCAT TESTING COMPANY



Date 4-29-70

Ticket No. 149



Company AMERICAN-ASH-BELL Contractor SAGE DRILLING CO.
 Well No. 1 Lease KNOLL County GRAHAM Sec. 22 R. 10 Twp. 25
 Test No. 3 Size Hole 7 7/8 Packer Size 6 3/4 Drill Pipe Size 4 1/2 FH.
 Interval Tested From 3786 To 3810 Depth of Well 3810 Size Choke 1/2
 Fluid Recovered In FLEXWEIGHT Temp. 112 Elev. 11
 Initial Hyd. 2030 PSI Final Hyd. 2030 PSI
 First Initial Flow Pressure 30 PSI Opened Tool 10:55 A.M. P.M.
 First Final Flow Pressure 30 PSI First Flow Pres. 30 Min.
 Initial Closed-in Pressure 30 PSI Initial Closed-in Pres. 30 Min.
 Second Initial Flow Pressure 30 PSI Second Flow Pres. 30 Min.
 Second Final Flow Pressure 30 PSI Final Closed-in Pres. 30 Min.
 Final Closed-in Pressure 30 PSI
 Blow WEAK BLOW THRU INITIAL FLOW.

Recovery 15 FT. VERY HEAVY OIL CUT MUD.
 15 FT. SLIGHT OIL CUT MUD.

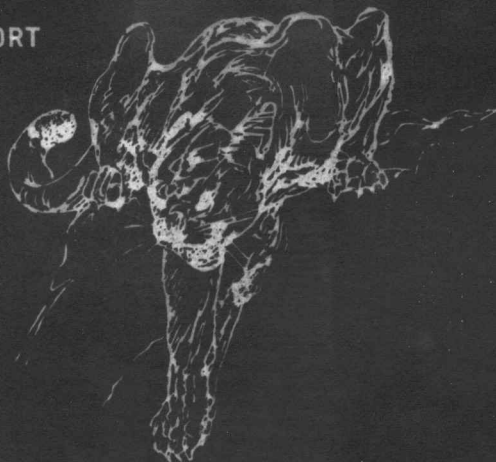
Remarks

Approved By DICK FOLEY Tester ED PHILBERN

DRILL STEM TEST RECOVERY REPORT

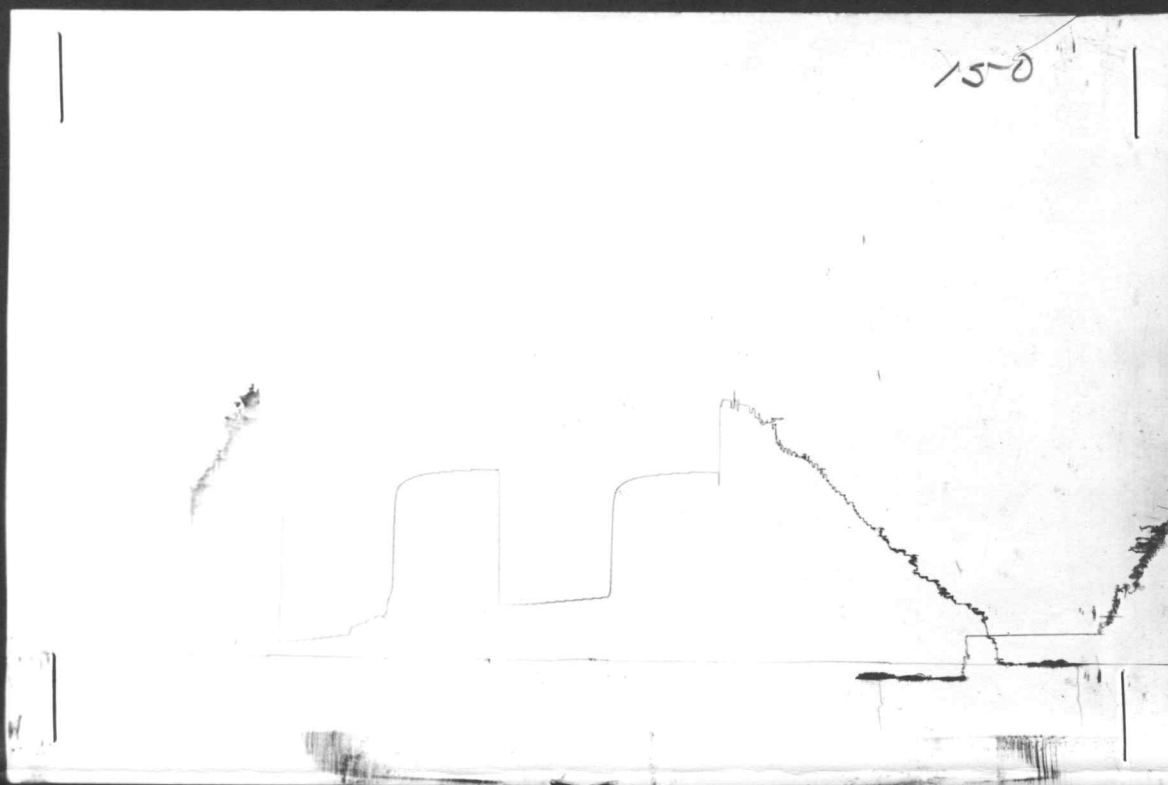
WILDCAT TESTING COMPANY

Route 1, Phone 793-1234
WYATT, OKLAHOMA



Date 4-29-70

Ticket No. 150



Company AMERICAN-ASH-BELL Contractor SAGE DRLG. CO.
Well No. 1 Lease KNOLL County GRAHAM Sec. 22 Rg. 10 Twp. 25
Test No. 4 Size Hole 7 7/8 Packer Size 6 3/4 Drill Pipe Size 4 1/2 PH.
Interval Tested From 3808 To 3825 Depth of Well 3825 Size Choke 1/2
Fluid Recovered In FLEXWEIGHT Temp. 130 Elev.
Initial Hyd. 2040 P.S.I. Final Hyd. 2040 P.S.I.
First Initial Flow Pressure 230 P.S.I. Opened Tool 10:13 A.M. P.M.
First Final Flow Pressure 230 P.S.I. First Flow Pres. 30 Min.
Initial Closed-in Pressure 1385 P.S.I. Initial Closed-in Pres. 30 Min.
Second Initial Flow Pressure 395 P.S.I. Second Flow Pres. 30 Min.
Second Final Flow Pressure 395 P.S.I. Final Closed-in Pres. 30 Min.
Final Closed-in Pressure 1385 P.S.I.
Blow FAIR TO STRONG BLOW THRU-OUT TEST.

Recovery 400 FT. WATER.

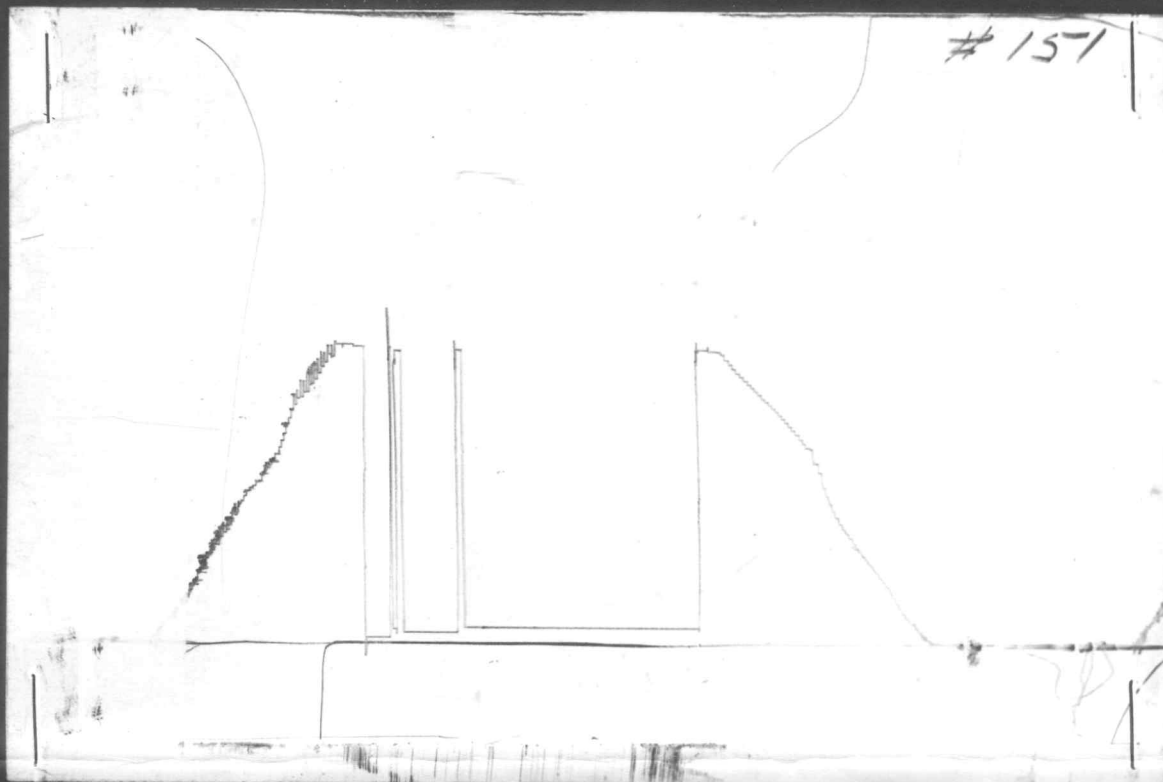
Remarks

Approved By DICK FOLEY Tester ED PHILBURN



Date 4-30-70

Ticket No. 151



Company AMERICAN-ASH-BELL Contractor SAGE DRIG. CO.

Well No. 1 Lease KNOLL County GRAHAM Sec. 22 Rg. 10 Twp 25

Test No. 5 Size Hole 7 7/8 Packer Size 6 3/4 Drill Pipe Size 4 1/2 FH.

Interval Tested From 3831 To 3840 Depth of Well 3840 Size Choke 1/2

Fluid Recovered In FLEXWEIGHT Temp. 111 Elev.

Initial Hyd. 2280 P.S.I. Final Hyd. 2280 P.S.I.

First Initial Flow Pressure 10 P.S.I. Opened Tool 9:25 A.M. / P.M.

First Final Flow Pressure 10 P.S.I. First Flow Pres. 30 Min.

Initial Closed-in Pressure 35 P.S.I. Initial Closed-in Pres. 30 Min.

Second Initial Flow Pressure 45 P.S.I. Second Flow Pres. 5 Min.

Second Final Flow Pressure 45 P.S.I. Final Closed-in Pres. 10 Min.

Final Closed-in Pressure 45 P.S.I.

Blow WEAK BLOW FOR 5 MIN. FLUSH TOOL.

Recovery 5 FT. MUD.

Remarks

Approved By DICK FOLEY

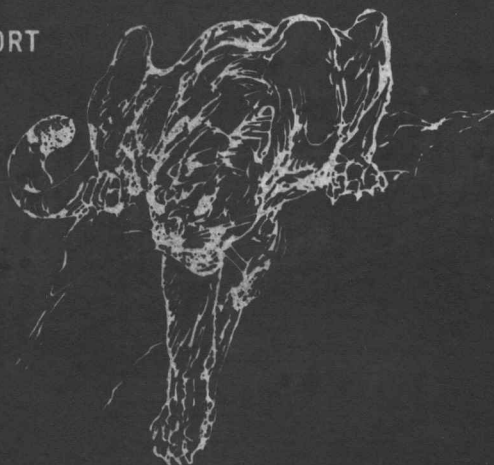
Tester

ED PHILBERN

DRILL STEM TEST RECOVERY REPORT

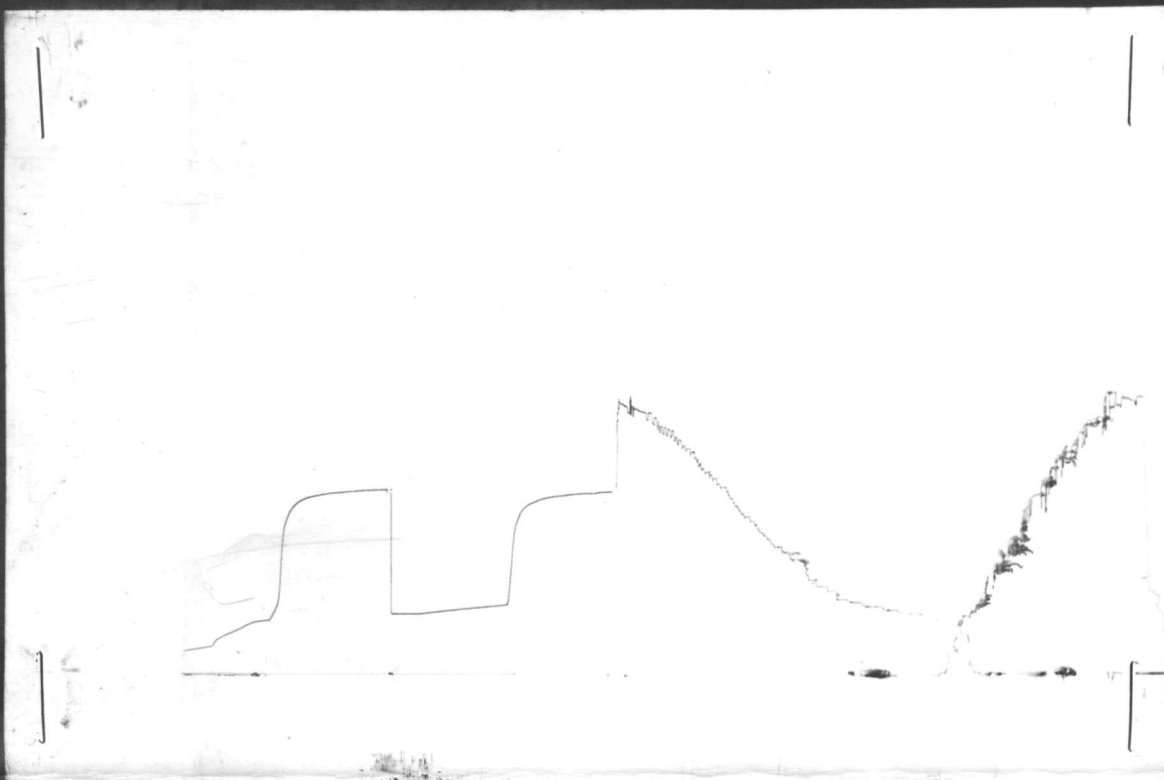
WILDCAT TESTING COMPANY

Route 1 Phone 793-9278
GREAT BEND, KANSAS



Date 4-30-70

Ticket No. 152

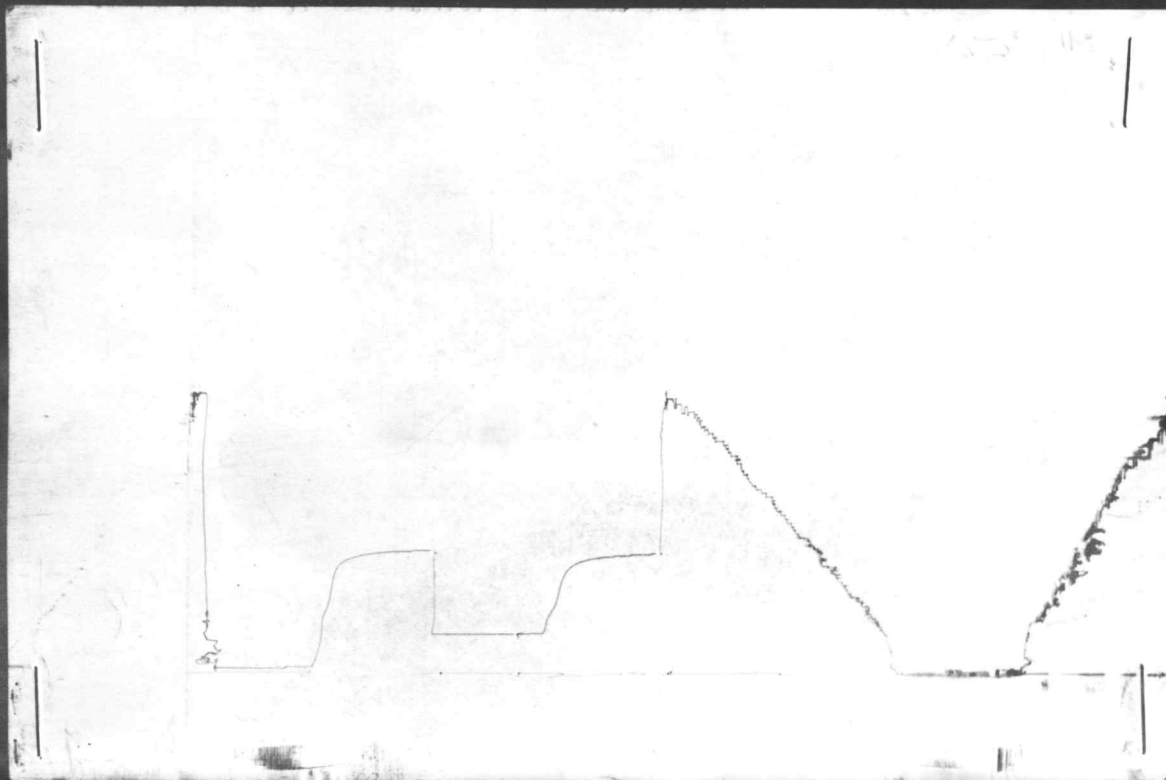


Company AMERICAN-ASH-BELL Contractor SAGE DRLG. CO.
Well No. 1 Lease KNOLL County GRAHAM Sec. 22 Rg. 10 Twp. 25
Test No. 6 Size Hole 7 7/8 Packer Size 6 3/4 Drill Pipe Size 4 1/2 FH.
Interval Tested From 3855 To 3875 Depth of Well 3875 Size Choke 1/2
Fluid Recovered In FLEXWEIGHT Temp. 120 Elev.
Initial Hyd. 2080 P.S.I. Final Hyd. 2080 P.S.I.
First Initial Flow Pressure 335 P.S.I. Opened Tool 8:15 AM P.M.
First Final Flow Pressure 335 P.S.I. First Flow Pres. 30 Min.
Initial Closed-in Pressure 1345 P.S.I. Initial Closed-in Pres. 30 Min.
Second Initial Flow Pressure 440 P.S.I. Second Flow Pres. 30 Min.
Second Final Flow Pressure 440 P.S.I. Final Closed-in Pres. 30 Min.
Final Closed-in Pressure 1345 P.S.I.
Blow STRONG BLOW THRU-OUT TEST.
Recovery 300 FT. GAS IN PIPE.
60 FT. V.H.O.G.C.M. WITH FREE OIL SPOTS.
60 FT GASSY OIL EMULSION 120 FT OIL
Remarks 360 FT. OILY WATER.
Approved By DICK FOLEY Tester EDP PHILBERN



Date 5-1-70

Ticket No. 153



Company AMERICAN -ASH -BELL Contractor SAGE DRLO. CO.
 Well No. 1 Lease KNOX County GRANT Sec. 22 Rg. 10 Twp. 25
 Test No. 7 Size Hole 7 7/8 Packer Size 6 3/4 Drill Pipe Size 4 1/2 FH.
 Interval Tested From 3904 To 3930 Depth of Well 3930 Size Choke 1/2
 Fluid Recovered In FLEXWEIGHT Temp. 126 Elev.
 Initial Hyd. 2105 P.S.I. Final Hyd. 2105 P.S.I.
 First Initial Flow Pressure 10 P.S.I. Opened Tool 1:03 ~~AM~~ P.M.
 First Final Flow Pressure 10 P.S.I. First Flow Pres. 30 Min.
 Initial Closed-in Pressure 825 P.S.I. Initial Closed-in Pres. 30 Min.
 Second Initial Flow Pressure 240 P.S.I. Second Flow Pres. 30 Min.
 Second Final Flow Pressure 240 P.S.I. Final Closed-in Pres. 30 Min.
 Final Closed-in Pressure 825 P.S.I.
 Blow GOOD BLOW ON INITIAL & FAIR BLOW ON FINAL FLOW.

Recovery 5 FT. OIL CUT MUD.
 180 FT. MUDDY SALT WATER.

Remarks

Approved By ED/PA FOLEY Tester ED PHILBERN

DRILL STEM TEST RECOVERY REPORT

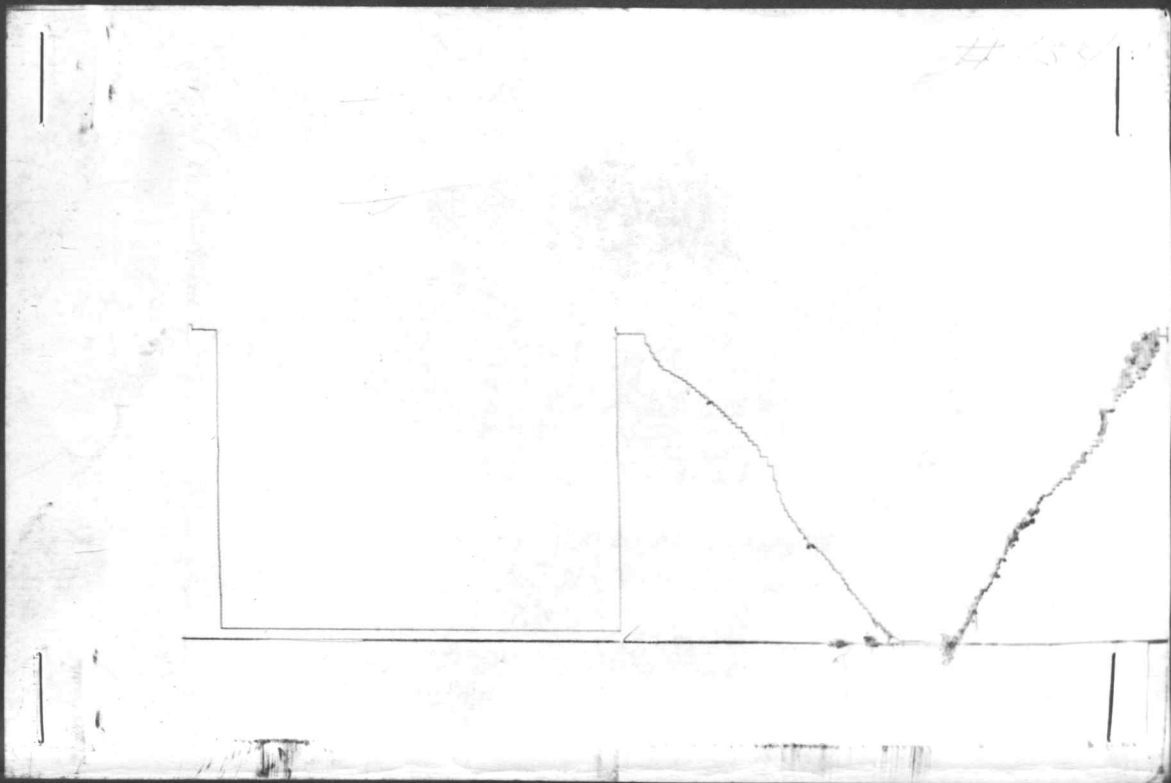
WILDCAT TESTING COMPANY

1001 E. 10TH AVE. SUITE 200
OFTEN, KANSAS



Date 5-2-70

Ticket No. 154



Company AMERICAN- ASH - BELL Contractor SAGE DRILG. CO.

Well No. 1 Lease KNOX County GRAHAM Sec. 22 Rg. 10 Twp. 25

Test No. 8 Size Hole 7 7/8 Packer Size 6 3/4 Drill Pipe Size 4 1/2 FH.

Interval Tested From 3936 To 3950 Depth of Well 3950 Size Choke 1/2

Fluid Recovered In FLEXWEIGHT Temp. 116 Elev.

Initial Hyd.	2370	P.S.I.	Final Hyd.	2370	P.S.I.
First Initial Flow Pressure	30	P.S.I.	Opened Tool	12:03	A.M. P.M.
First Final Flow Pressure	30	P.S.I.	First Flow Pres.	30	Min.
Initial Closed-in Pressure	30	P.S.I.	Initial Closed in Pres.	30	Min.
Second Initial Flow Pressure	30	P.S.I.	Second Flow Pres.	30	Min.
Second Final Flow Pressure	30	P.S.I.	Final Closed-in Pres.	30	Min.
Final Closed-in Pressure	30	P.S.I.			

Blow WEAK STEADY BLOW THRU-OUT TEST.

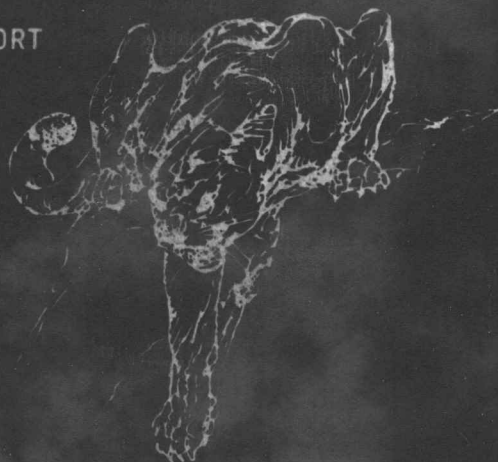
Recovery 25 FT OIL CUT DRILG. MUD WITH FREE OIL IN TOP OF TEST TOOL.

Remarks

Approved By DICK FOLEY Tester ED PHILBERN

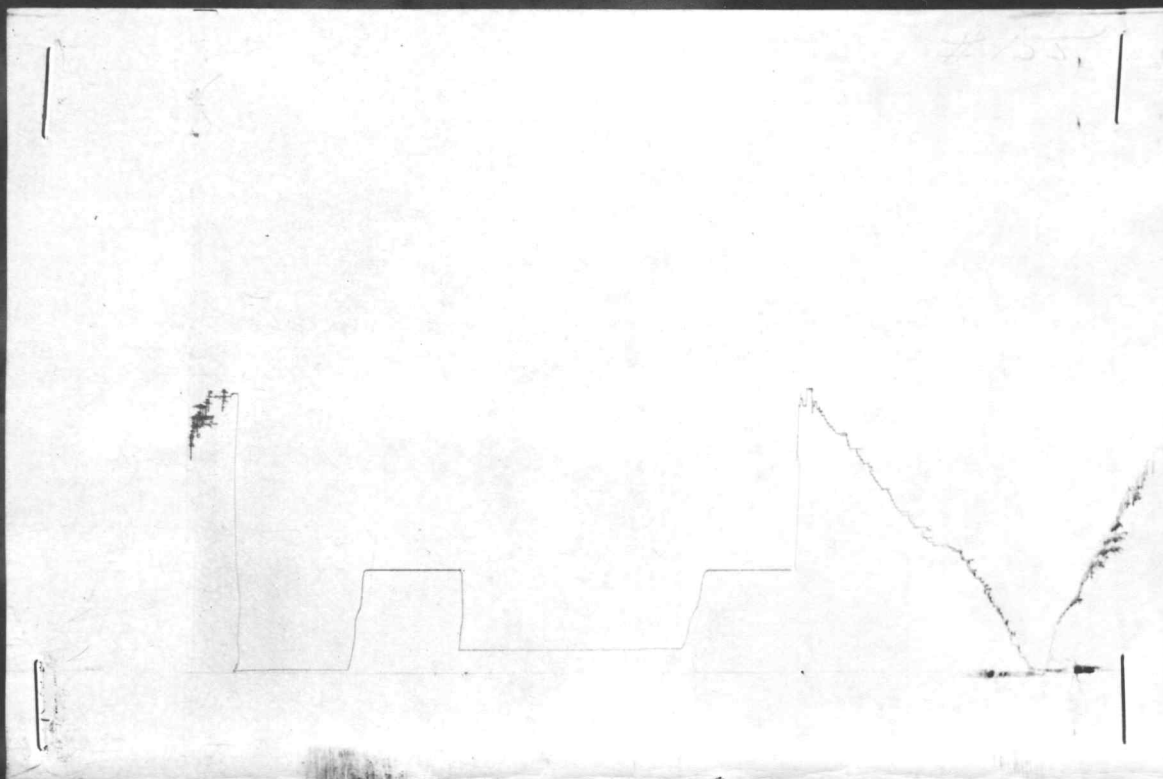
DRILL STEM TEST RECOVERY REPORT

WILDCAT TESTING COMPANY



Date 5-2-70

Ticket No. 155



Company AMERICAN - ASH - BELL Contractor SAGE DRILG. CO.
 Well No. 1 Lease KNOX County GRAFTON Sec. 22 Rg. 10 Twp. 25
 Test No. 9 Size Hole 7 7/8 Packer Size 6 3/4 Drill Pipe Size 4 1/2 PH.
 Interval Tested From 3957 To 3970 Depth of Well 3970 Size Choke 1/2
 Fluid Recovered In FLEXWBI HT Temp. 124 Elev.
 Initial Hyd. 2140 P.S.I. Final Hyd. 2140 P.S.I.
 First Initial Flow Pressure 10 P.S.I. Opened Tool 11:15 A.M. W.M.#
 First Final Flow Pressure 10 P.S.I. First Flow Pres. 30 Min.
 Initial Closed-in Pressure 685 P.S.I. Initial Closed-in Pres. 30 Min.
 Second Initial Flow Pressure 80 P.S.I. Second Flow Pres. 60 Min.
 Second Final Flow Pressure 80 P.S.I. Final Closed-in Pres. 30 Min.
 Final Closed-in Pressure 685 P.S.I.
 Blow WEAK TO FAIR BLOW THRU-OUT TEST.
 Recovery 150 FT. MUDDY SALT WATER.

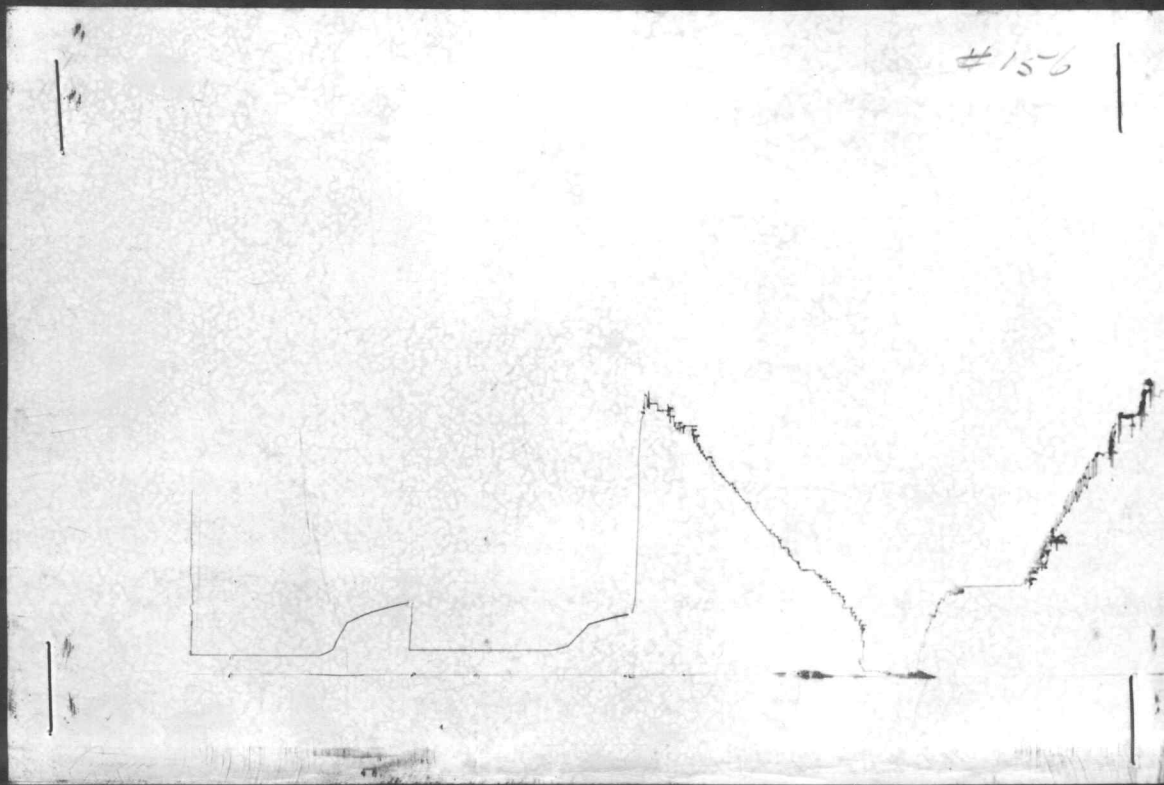
Remarks

Approved By DICK FOLEY Tester ED PHILBERN



Date 5-2-70

Ticket No. 156



Company AMERICAN - ASH - BELI Contractor SAGE DRLG. CO.
 Well No. 1 Lease KNOLL County GRAMM Sec. 22 Rg. 10 Twp. 25
 Test No. 10 Size Hole 7 7/8 Packer Size 6 3/4 Drill Pipe Size 4 1/2 FH.
 Interval Tested From 3973 To 3995 Depth of Well 3995 Size Choke 1/2
 Fluid Recovered In FLEXWEIGHT Temp. 118 Elev. _____
 Initial Hyd. 2100 P.S.I. Final Hyd. 2100 P.S.I.
 First Initial Flow Pressure 50 P.S.I. Opened Tool 11:45 A.M. P.M.
 First Final Flow Pressure 50 P.S.I. First Flow Pres. 30 Min.
 Initial Closed-in Pressure 445 P.S.I. Initial Closed-in Pres. 30 Min.
 Second Initial Flow Pressure 85 P.S.I. Second Flow Pres. 30 Min.
 Second Final Flow Pressure 85 P.S.I. Final Closed-in Pres. 30 Min.
 Final Closed-in Pressure 400 P.S.I.
 Blow WEAK BLOW THRU-OUT TEST.
 Recovery 20 FT. WATERY DRLG. MUD.

Remarks

Approved By DICK POLEY Tester ED PHILBORN