HALLIBURTON
SERVICES

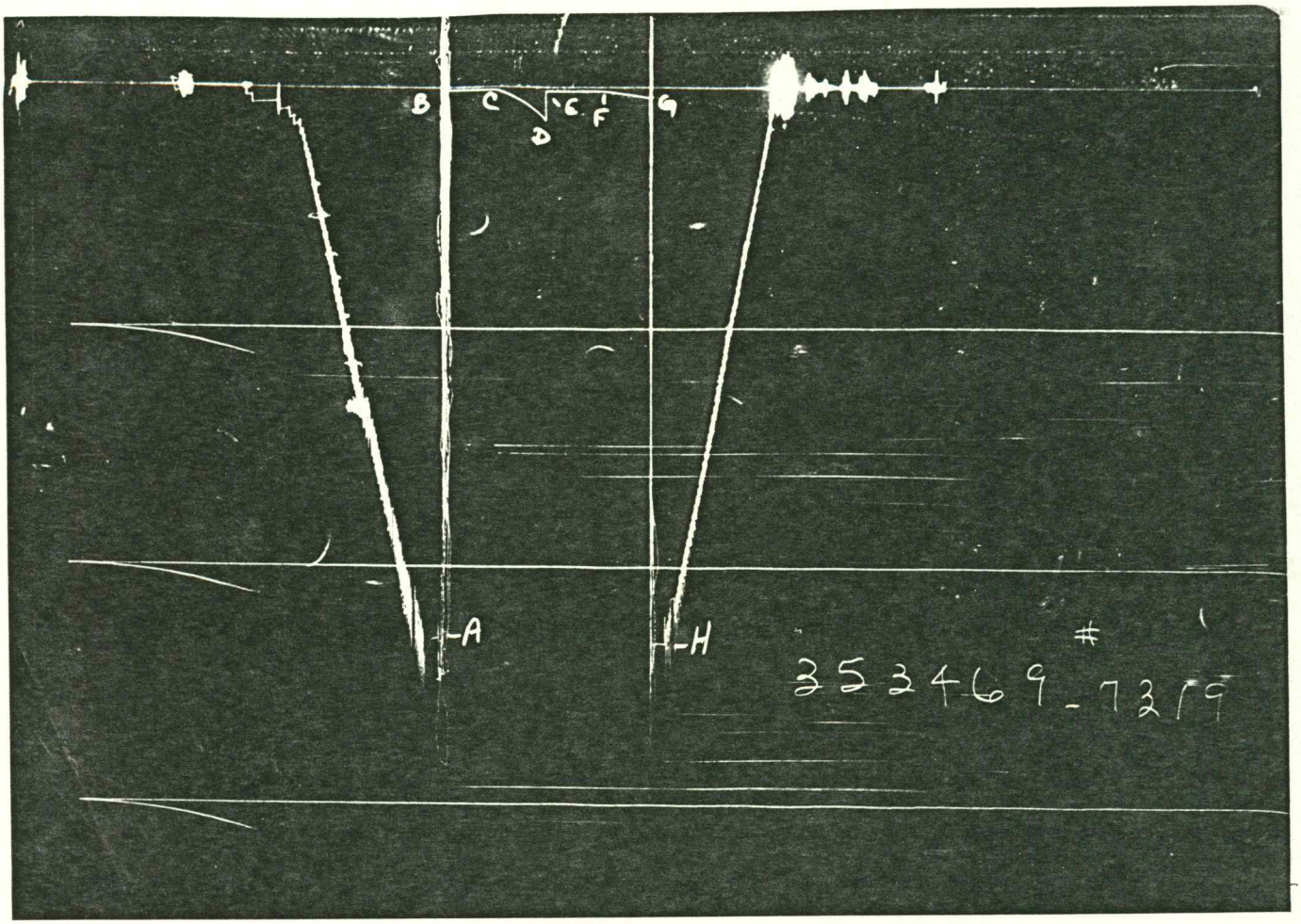
TICKET NO. 35346900
29-MAR-82

FORMATION TESTING SERVICE REPORT

LEGAL LOCATION SEC. - TWP. - RNG.	FIELD AREA	COUNTY	STATE
29 - 9S - 33W	S.E. COLBY, KS.	THOMAS	KANSAS

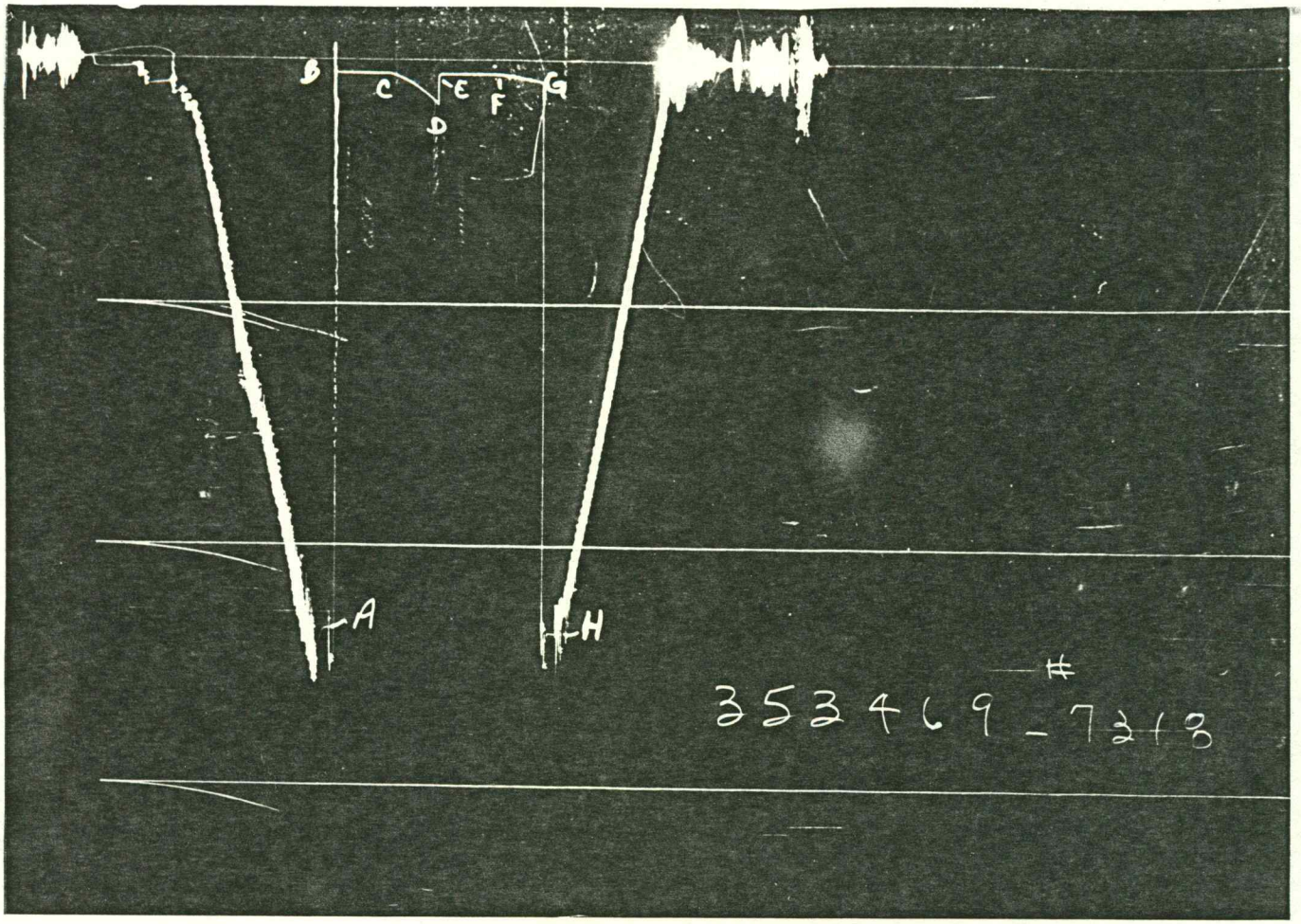
SE-SE-SW

LEASE NAME	WELL NO.	TEST NO.	TESTED INTERVAL	LEASE OWNER/COMPANY NAME
GOOSEN	I-1	1	4646.' - 4720.'	DONALD C. SLAWSON



GAUGE NO: 7319 DEPTH: 4636.2 BLANKED OFF: NO

ID	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
A	INITIAL HYDROSTATIC		2291.6			
B	INITIAL FIRST FLOW		11.7	30.0	30.0	F
C	FINAL FIRST FLOW		11.7			
C	INITIAL FIRST CLOSED-IN		11.7	30.0	30.0	C
D	FINAL FIRST CLOSED-IN		139.6			
E	INITIAL SECOND FLOW		20.9	30.0	30.0	F
F	FINAL SECOND FLOW		14.4			
F	INITIAL SECOND CLOSED-IN		14.4	30.0	30.0	C
G	FINAL SECOND CLOSED-IN		42.5			
H	FINAL HYDROSTATIC		2313.0			



GAUGE NO: 7318 DEPTH: 4717.0 BLANKED OFF: YES

ID	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
A	INITIAL HYDROSTATIC		2335.2			
B	INITIAL FIRST FLOW		55.7	30.0	30.0	F
C	FINAL FIRST FLOW		56.4			
C	INITIAL FIRST CLOSED-IN		56.4	30.0	30.0	C
D	FINAL FIRST CLOSED-IN		180.3			
E	INITIAL SECOND FLOW		68.7	30.0	30.0	F
F	FINAL SECOND FLOW		58.2			
F	INITIAL SECOND CLOSED-IN		58.2	30.0	30.0	C
G	FINAL SECOND CLOSED-IN		85.5			
H	FINAL HYDROSTATIC		2351.9			

EQUIPMENT & HOLE DATA

FORMATION TESTED: MISSISSIPPI
NET PAY (ft): 3.0
GROSS TESTED FOOTAGE: 74.0
ALL DEPTHS MEASURED FROM: KELLY BUSHING
CASING PERFS. (ft):
HOLE OR CASING SIZE (in): 7.875
ELEVATION (ft): 3206
TOTAL DEPTH (ft): 4720.0
PACKER DEPTH(S) (ft): 4646
FINAL SURFACE CHOKE (in): 0.250
BOTTOM HOLE CHOKE (in): 0.750
MUD WEIGHT (lb/gal): 9.60
MUD VISCOSITY (sec): 56
ESTIMATED HOLE TEMP. (°F):
ACTUAL HOLE TEMP. (°F): 120 @ 4715.0 ft

TICKET NUMBER: 35346900

DATE: 3-21-82 TEST NO: 1

TYPE DST: OPEN HOLE

HALLIBURTON CAMP: OBERLIN

TESTER: MR. KARLS

WITNESS: MR. STEWART

DRILLING CONTRACTOR: SLAWSON DRILLING COMPANY RIG #3

FLUID PROPERTIES FOR RECOVERED MUD & WATER

SOURCE	RESISTIVITY	CHLORIDES
	@ °F	ppm
	@ °F	ppm
	@ °F	ppm
	@ °F	ppm
	@ °F	ppm
	@ °F	ppm

SAMPLER DATA

Psig AT SURFACE:
cu.ft. OF GAS:
cc OF OIL:
cc OF WATER:
cc OF MUD:
TOTAL LIQUID cc:

HYDROCARBON PROPERTIES

OIL GRAVITY (°API): @ °F
GAS/OIL RATIO (cu.ft. per bbl):
GAS GRAVITY:

CUSHION DATA

TYPE	AMOUNT	WEIGHT

RECOVERED:

15 FEET OF WATERY MUD.

MEASURED FROM TESTER VALVE

REMARKS:

SEE PRODUCTION TEST DATA SHEET....

TYPE & SIZE MEASURING DEVICE: _____					TICKET NO: 85346900
TIME	CHOKE SIZE	SURFACE PRESSURE PSI	GAS RATE MCF	LIQUID RATE BPD	REMARKS
1130					CALLED OUT, READY AT 1400 HRS.
1320					ON LOCATION, RIG CIRCULATING.
1335					STARTED OUT OF HOLE WITH DRILL
					PIPE.
1555					OUT OF HOLE WITH DRILL PIPE.
1605					PICKED UP AND MADE UP TOOL.
1620					TOOL IN TABLE, READY TO GO IN
					HOLE.
1650					WENT IN HOLE WITH TOOL.
1842					ON BOTTOM WITH TOOL.
1845					OPENED TOOL WITH 1/8" BLOW
					DOWN, BUILDING TO 1/2"
1915					TOOL CLOSED WITH NO BLOW.
1945					REOPENED TOOL WITH NO BLOW.
2015					TOOL CLOSED WITH NO BLOW.
2045					OFF BOTTOM WITH TOOL.
2228					TOOL IN TABLE.
2325					TOOL LAID DOWN.
2345					CHARTS READ.
2355					JOB COMPLETED.

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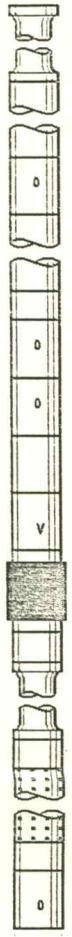
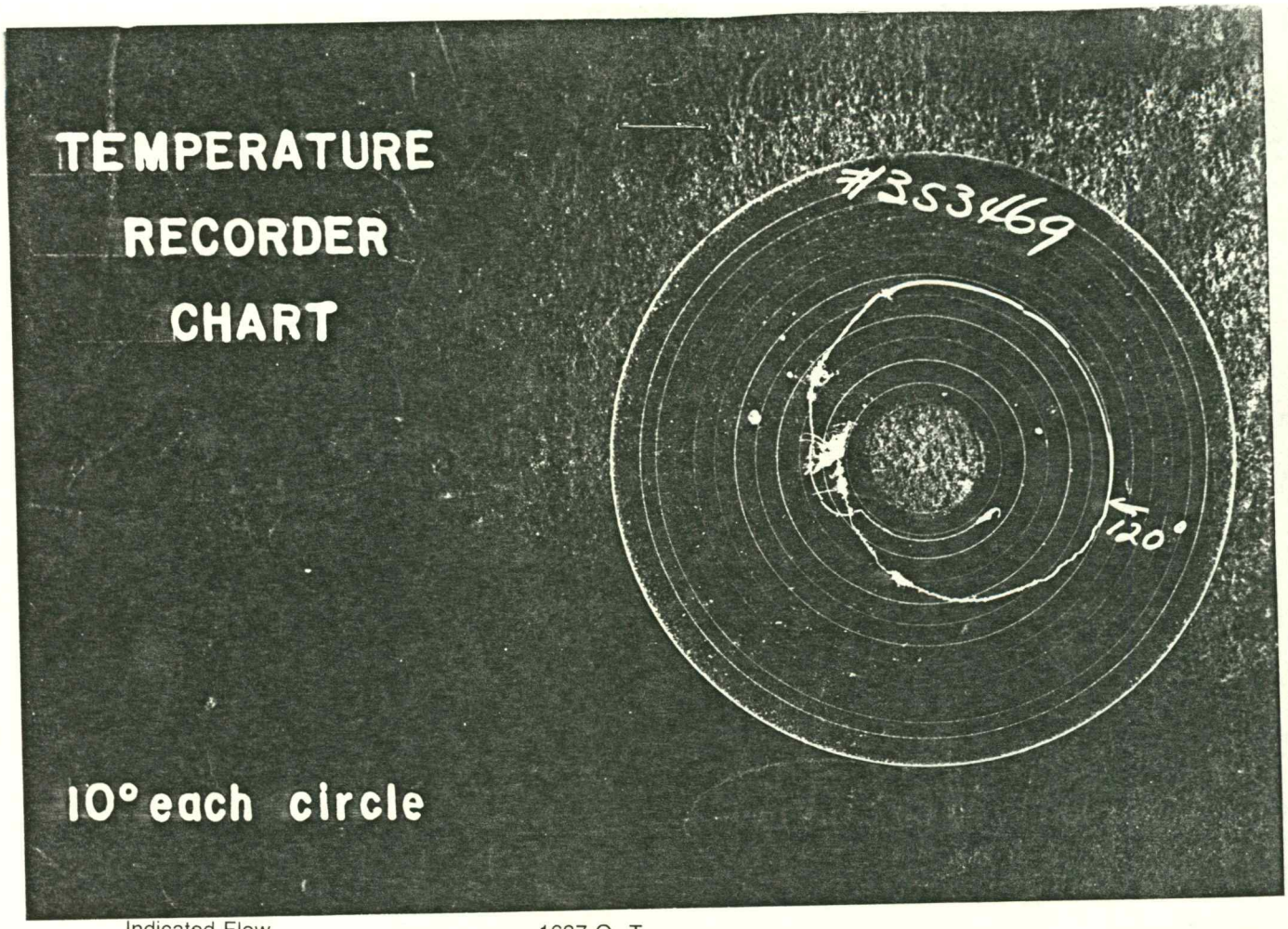


		O.D.	I.D.	LENGTH	DEPTH
1	DRILL PIPE.....	4.500	3.826	4286.80	
3	DRILL COLLARS.....	6.250	2.250	273.39	
50	IMPACT REVERSING SUB.....	5.750	2.750	1.00	4564.19
3	DRILL COLLARS.....	6.250	2.250	62.00	
5	CROSSOVER.....	5.750	2.250	1.00	
12	DUAL CIP VALVE.....	5.000	0.870	6.00	
60	HYDROSPRING TESTER.....	5.000	0.750	5.00	4634.19
80	AP RUNNING CASE.....	5.000	2.250	4.00	4636.19
16	VR SAFETY JOINT.....	5.000	1.000	3.00	
70	OPEN HOLE PACKER.....	6.750	1.530	5.81	4646.00
5	CROSSOVER.....	5.750	2.250	1.00	
4	FLEX WEIGHT.....	4.500	2.764	31.00	
5	CROSSOVER.....	5.750	2.250	1.00	
20	FLUSH JOINT ANCHOR.....	5.000	2.370	34.00	
83	HT-500 TEMPERATURE CASE.....	5.000	2.250	1.00	4715.00
81	BLANKED-OFF RUNNING CASE.....	5.000	2.440	4.00	4717.00

TOTAL DEPTH 4720.00

EQUIPMENT DATA



Indicated Flow Capacity	$kh = \frac{1637\ Q_g\ T}{m}$	md-ft
Average Effective Permeability	$k = \frac{kh}{h}$	md
Skin Factor	$S = 1.151 \left[\frac{m(P^*) - m(P_f)}{m} - \text{LOG} \frac{kt}{\phi\ \mu\ c_t r_w^2} + 3.23 \right]$	—
Damage Ratio	$DR = \frac{m(P^*) - m(P_f)}{m(P^*) - m(P_f) - 0.87\ mS}$	—
Indicated Flow Rate (Maximum)	$AOF_1 = \frac{Q_g\ m(P^*)}{m(P^*) - m(P_f)}$	MCFD
Indicated Flow Rate (Minimum)	$AOF_2 = Q_g \sqrt{\frac{m(P^*)}{m(P^*) - m(P_f)}}$	MCFD
Approx. Radius of Investigation	$r_i = 0.032 \sqrt{\frac{kt}{\phi \mu c_t}}$	ft