

JOHNSTON-MACCO

Schlumberger

**technical
report**

FIELD REPORT #19574 D

COMPANY HEXAGON OIL & GAS WELL SOMBRERO STATE #2 TEST NO. 2 COUNTY LEA STATE N. MEXICO

WELL IDENTIFICATION

COMPANY: HEXAGON OIL AND GAS
 905 NEIL P. ANDERSON BUILDING
 FORT WORTH, TEXAS 76102
 SOMBRERO "MS" STATE #2
 WELL: INTERVAL: 11300' TO 11447'
 TEST NO: 2
 TEST DATE: 10-6-80
 STATE: NEW MEXICO
 CUSTOMER: SAME
 LOCATION: NE/4 OF NW/4 SEC.27, T16S R33E
 FIELD: WILD CAT
 TEST DATE: 10-6-80
 STATE: NEW MEXICO
 TEST APPROVED BY: MR. J. BRENT JOHNSON

EQUIPMENT AND HOLE DATA

TEST TYPE: M.F.E. OPEN HOLE
 ELEVATION: 4200'
 TOTAL DEPTH: 11447'
 MAIN HOLE/CASING SIZE: 7 7/8"
 RAT HOLE/LINER SIZE: -
 FORMATION TESTED: SEMAN
 NET PROD. INTERVAL: 15'
 POROSITY: 12%
 DRILL PIPE LENGTH: 10786 FT.
 DRILL PIPE I.D.: 3.826 IN.
 DRILL COLLAR LENGTH: 478 FT.
 DRILL COLLAR I.D.: 2.25 IN.
 PACKER DEPTHS: 11294 & 11300 FT.
 DEPTHS REF. TO: KELLY BUSHING

TEST TOOL CHAMBER DATA

SAMPLER PRESSURE: 460 PSIG
 RECOVERED OIL GRAVITY: 25043 DEG. F.
 RECOVERY GOR: 25043 FT3/BBL.
 SAMPLE CHAMBER CONTENTS
 VOLUME
 GAS: 3.15 FT.3
 OIL: 20 CC
 WATER: 20 CC
 MUD: 20 CC
 FILTRATE: 40 CC
 TOTAL LIQUID: 40 CC

MUD DATA

TYPE: SALT GEL STARCH
 WEIGHT: 9.5 LB/GAL.
 VISCOSITY: 36 SEC.
 WATER LOSS: 7 CC
 FLUID RESIST (OHM-M) (DEG F) (PPM)
 MUD: .8
 FILTRATE: 70 89696

REMARKS

SURFACE INFORMATION

DESCRIPTION(RATE OF FLOW)

TIME PRESSURE PSIG SURFACE CHOKE

SET PACKER
OPENED TOOL
MODERATE BLOW
CLOSED FOR INITIAL SHUT-IN
FINISHED SHUT-IN
RE-OPENED TOOL
BLOW OFF BOTTOM OF BUCKET

ATTEMPTED TO CLOSE FOR FINAL SHUT-IN
EQUALIZED MUD
PULLED PACKER LOOSE

CUSHION TYPE: WATER

1000 FT

- PSIG

15/16 IN. BOTTOM CHOKE

RECOVERY INFORMATION

RECOVERY

FEET BARRELS
1000 9.75
650 9.23
60 .85

%OIL %WATER %OTHERS
- - 90%MUD
60

API GRAV. DEG. RESIST DEG. CHL PPM

WATER CUSHION
GAS CUT MUD
OIL AND GAS CUT MUD
TOP SAMPLE
MIDDLE SAMPLE
BOTTOM SAMPLE

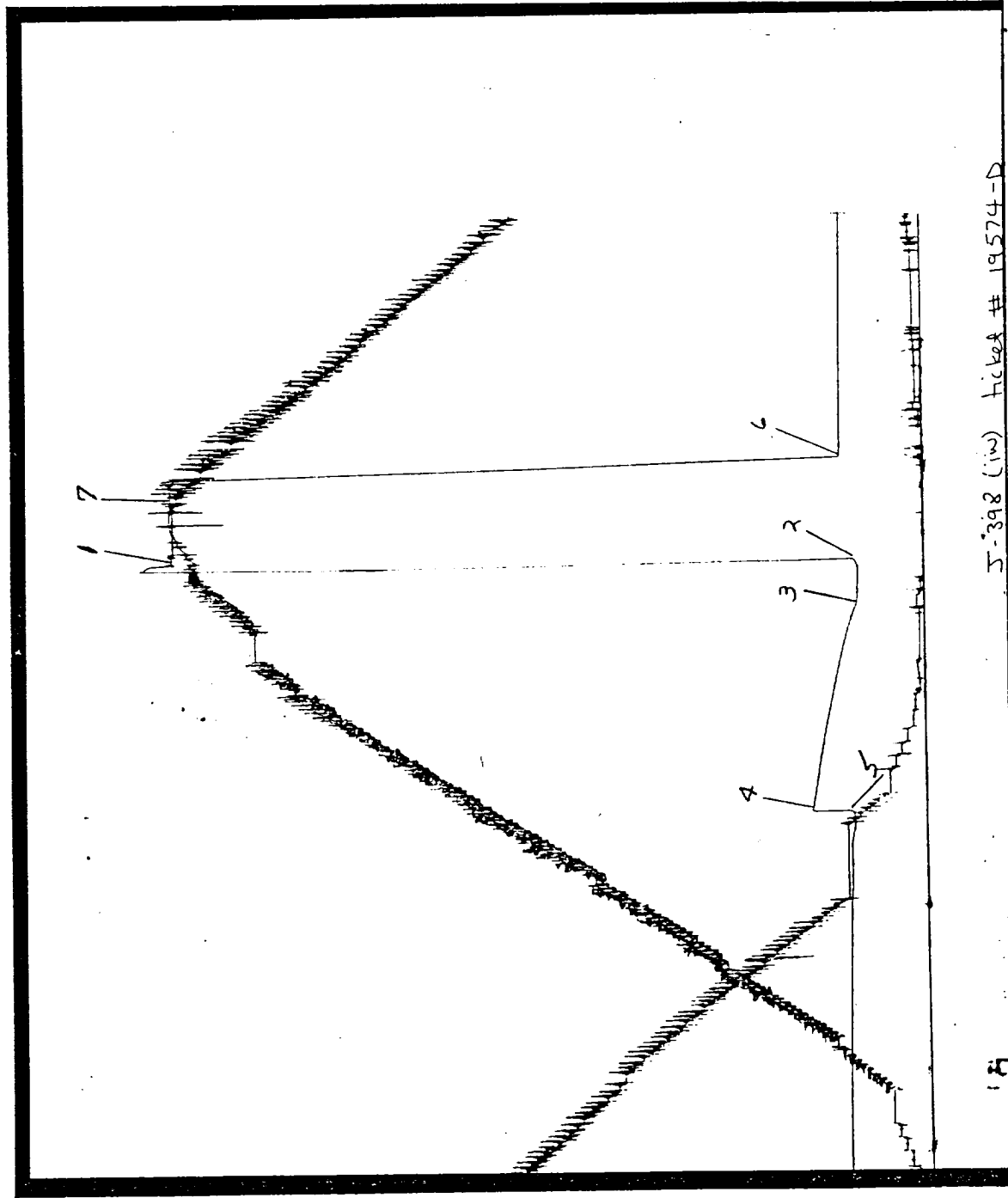
43 60 .8 76 78181
.9 80 22000
.8 78 87696

FIELD REPORT NO. 19574D

FIELD REPORT NO.: 19574 D CAPACITY: 6400#

INSTRUMENT NO.: J-398 NUMBER OF REPORTS: 12-

REMARKS: DID NOT OBTAIN A RELIABLE FINAL SHUT-IN PERIOD.



PRESSURE LOG

FIELD REPORT NO. 195740

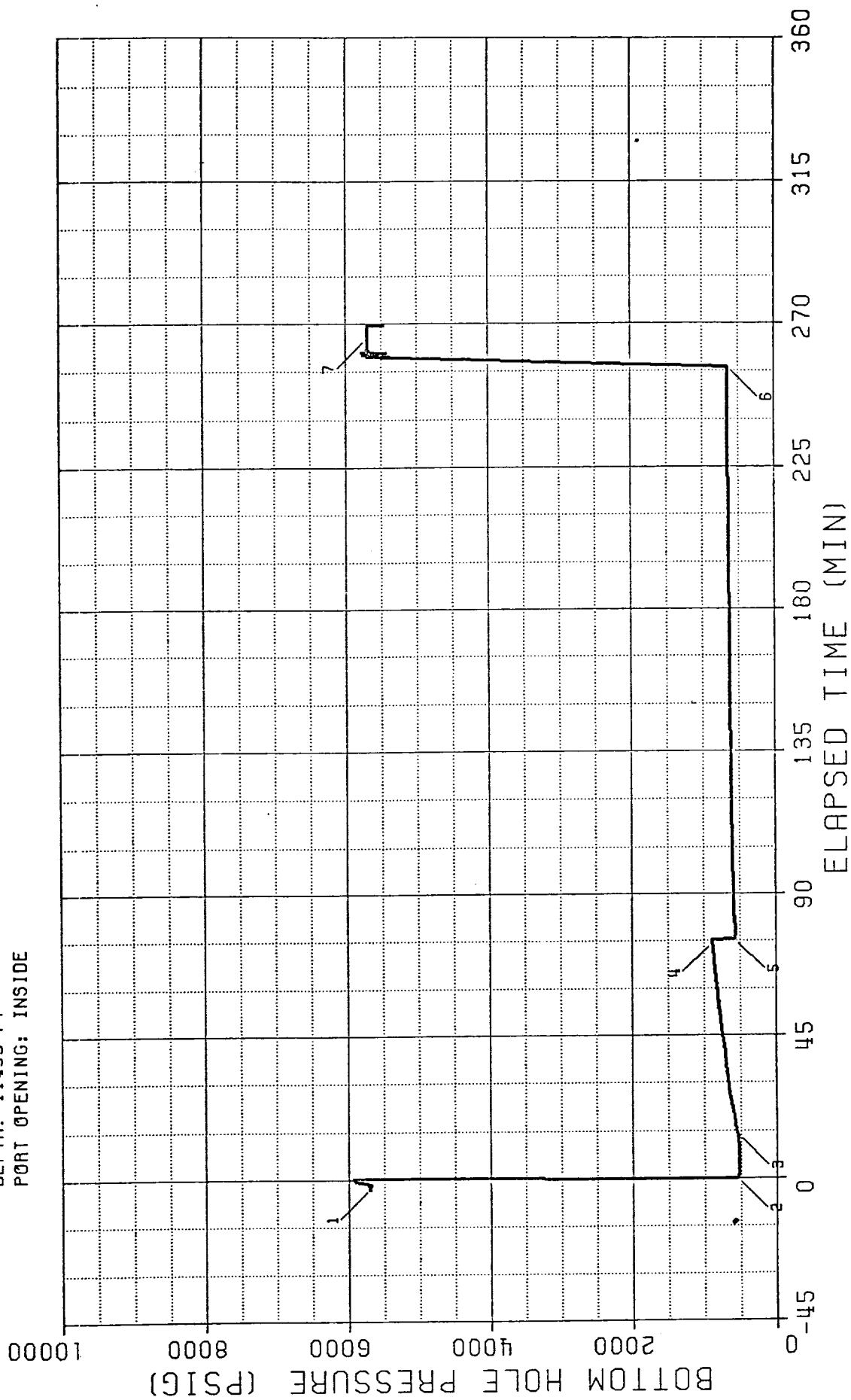
INSTRUMENT:

NUMBER: J-398

CAPACITY: 6400 PSI

DEPTH: 11435 FT

PORT OPENING: INSIDE



BOTTOM HOLE PRESSURE AND TIME DATA

INSTRUMENT NO.: J-398
PORT OPENING: INSIDE

CAPACITY (PSI): 6400
BOTTOM HOLE TEMP (F): 150

DEPTH (FT): 11435

***** EXPLANATION *****

HYDROSTATIC MUD
START FLOW
END FLOW & START SHUT-IN
END SHUT-IN
START FLOW
END FLOW
HYDROSTATIC MUD

LABLED POINT

1
2
3
4
5
6
7

5698
553
534
885
576
648
5705

ELAPSED TIME (MIN)

-2.8
0.0
13.5
74.5
75.6
256.2
265.4

***** * SUMMARY OF FLOW PERIODS * *****

FLOW PERIOD	ELAPSED TIME AT START (MIN)	ELAPSED TIME AT END (MIN)	DURATION OF FLOW (MIN)	PRESSURE AT START (PSIG)	PRESSURE AT END (PSIG)
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1
2

0.0
75.6

13.5
256.2

13.5
180.6

553
576

534
648

***** * SUMMARY OF SHUT-IN PERIODS * *****

SHUT-IN PERIOD	ELAPSED TIME AT START (MIN)	ELAPSED TIME AT END (MIN)	DURATION OF SHUT-IN (MIN)	PRESSURE AT START (PSIG)	PRESSURE AT END (PSIG)	FINAL FLOW PRESSURE (PSIG)	PRODUCING TIME (MIN)
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1

13.5

74.5

60.9

534

885

534

13.5