

COMPANY AMERICAN QUASAR
PETROLEUM COMPANY

WELL BENTON #13-31

TEST NO. 1 COUNTY

EAGLE

STATE COLORADO



00375180

RECEIVED

NOV 19 1979

COLO. OIL & GAS CONS. COMM.

JOHNSTON

Schlumberger

computerized
data
analysis

DVR	
FJP	
HHM	
JAM	
JJD	
RLS	
CGM	

file

F.R. # 15494 D

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...ound a better way

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RECEIVED**NOV 19 1979**

COLO. OIL & GAS CONS. COMM.

CONFIRMATION OF TECHNICAL REPORT DISTRIBUTION

CUSTOMER AMERICAN QUASAR PETROLEUM COMPANY FIELD REPORT NO. 15494 D DATE 11-4-79
COMPANY SAME AS ABOVE LEASE BENTON WELL NO. 13-31
COUNTY EAGLE STATE COLORADO FIELD WILD CAT

JOHNSTON TESTERS HAS BEEN REQUESTED TO FURNISH THE FOLLOWING COMPANIES WITH TECHNICAL REPORTS.
THIS DISTRIBUTION OF TECHNICAL REPORTS WILL BE USED FOR: ☒ ALL TESTS ON THIS WELL, UNLESS OTHERWISE NOTIFIED. ☐ THIS ONE TEST ONLY,

2 TECHNICAL REPORT (S)
AMERICAN QUASAR PETROLEUM COMPANY
707 UNITED BANK TOWER
1700 BROADWAY
DENVER, COLORADO 80290
ATTN: CLARE GREGG

1 TECHNICAL REPORT (S)
AMERICAN QUASAR PETROLEUM COMPANY
204 SUPERIOR BUILDING; 201 N. WOLCOTT
CASPER, WYOMING 82601
ATTN: JOHN SINDELAR

3 TECHNICAL REPORT (S)
AMERICAN QUASAR PETROLEUM COMPANY
2500 FORT WORTH NATIONAL BANK BUILDING
FORT WORTH, TEXAS 76102
ATTN: BILL BOGERT

2 TECHNICAL REPORT (S)
CITIES SERVICE COMPANY
1600 BROADWAY; SUITE 900
DENVER, COLORADO 80202
ATTN: D.M. FISHER

1 TECHNICAL REPORT (S)
ALTEX OIL CORPORATION
640 GUARANTY BANK BUILDING
DENVER, COLORADO 80202
ATTN: JEROME MARTINETS, JR.

1 TECHNICAL REPORT (S)
EMERY COAL, INC.
225 NORTH STATE STREET
SALT LAKE CITY, UTAH 84103
ATTN: R.J. HOLLBERY

2 TECHNICAL REPORT (S)
OIL & GAS CONSERVATION COMMISSION
1313 SHERMAN STREET; ROOM 721
DENVER, COLORADO 80203

1 TECHNICAL REPORT (S)
CAWLEY, HARRINGTON & GILLESPIE
302 FORT WORTH CLUB BUILDING
FORT WORTH, TEXAS 76102
ATTN: MR. JIMMY HARRINGTON

TECHNICAL REPORT (S)

TECHNICAL REPORT (S)

DVR	
FJP	
HHM	
JAM	<input checked="" type="checkbox"/>
JJD	<input checked="" type="checkbox"/>
RLS	
CGM	

It is our pleasure to be of service

JOHNSTON

JOHNSTON

00976186

COMPUTERIZED DATA ANALYSIS

NOVEMBER 13, 1979

GENTLEMEN:

THE ENCLOSED TEST APPEARS TO BE A GOOD MECHANICAL DRILL STEM TEST DURING WHICH THE TOOLS DID FUNCTION PROPERLY. THE FORMATION DID NOT PRODUCE ENOUGH RESERVOIR FLUID FOR PROPER IDENTIFICATION. RESERVOIR PRESSURE DRAWDOWN WAS SUFFICIENT BUT AN ADEQUATE SHUT-IN BUILD-UP DID NOT OCCUR FOR RELIABLE QUANTITATIVE ANALYSIS. AFTERFLOW WAS STILL IN EFFECT ON THE SHUT-IN BUILD-UP TO THE EXTENT THAT THE PLOT IS CONSIDERED UNRELIABLE FOR ANALYSIS.

FROM THE CONTOUR OF THE SHUT-IN PRESSURE BUILD-UP CURVES AND THE AMOUNT OF MUD RECOVERED, A LOW PERMEABILITY FORMATION IS INDICATED. A RELIABLE RESERVOIR PRESSURE COULD NOT BE OBTAINED FROM THIS DATA, THEREFORE NO ANALYSIS COULD BE PERFORMED.

Stephen Gardner
STEPHEN GARDNER
RESERVOIR EVALUATION
DEPARTMENT

AMERICAN QUASAR PETROLEUM COMPANY
BENTON #13-31; EAGLE COUNTY, COLORADO
TEST #1; 7040' TO 7083'
LOCATION: SEC. 13 - T3S - R85W

FIELD REPORT # 15494 D

In making any interpretation, our employees will give Customer the benefit of their best judgment as to the correct interpretation. Nevertheless, since all interpretations are opinions based on inferences from electrical, mechanical or other measurements, we cannot, and do not guarantee the accuracy or correctness of any interpretations, and we shall not be liable or responsible, except in the case of gross or wilful negligence on our part, for any loss, costs, damages or expenses incurred or sustained by Customer resulting from any interpretation made by any of our agents or employees.

ΔT (MIN)0.6 1.0 1.5 2.5 4.0 6.6 11 20 39 102 ∞

HORNER PLOT FIELD REPORT NO. 15494D

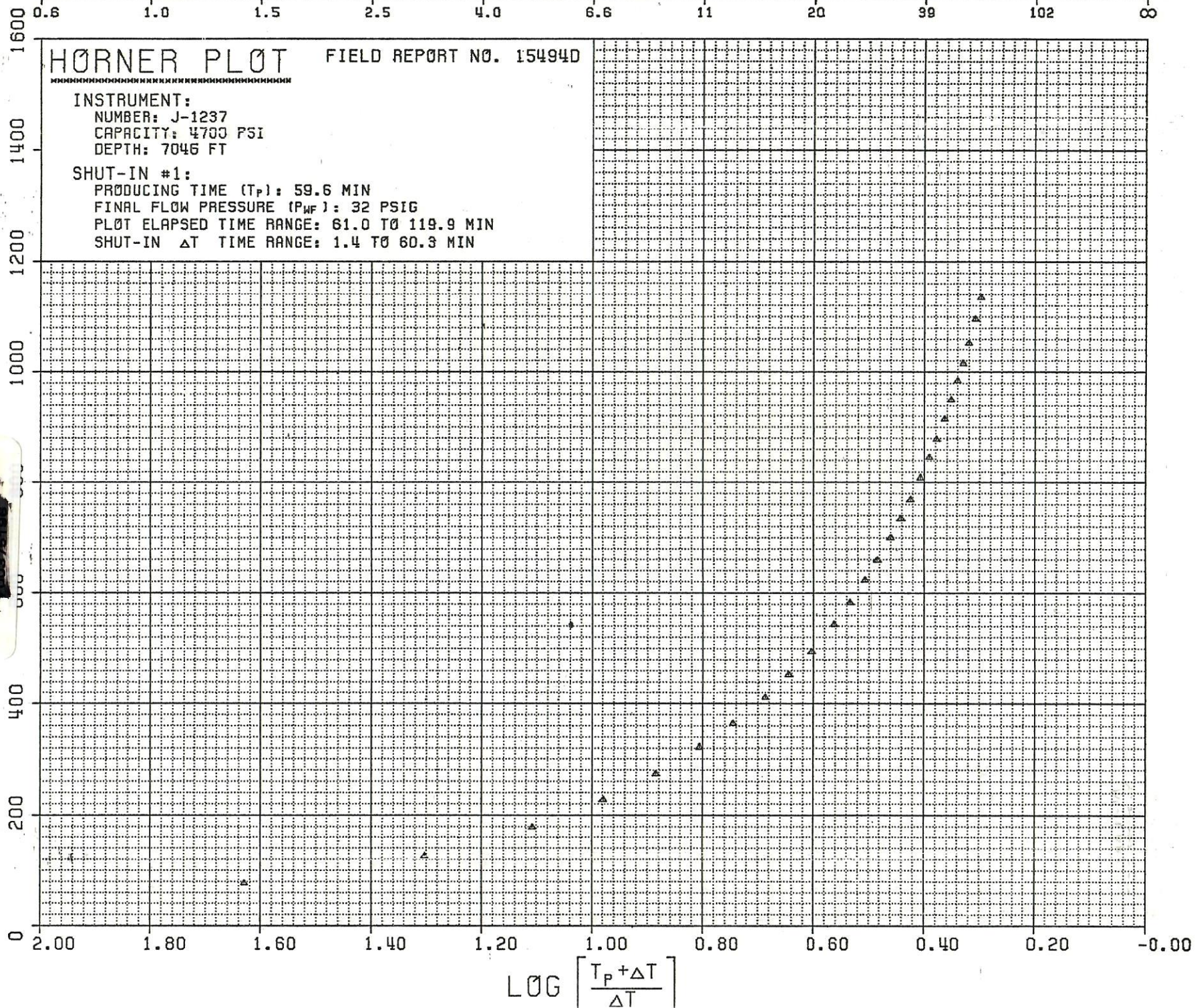
INSTRUMENT:

NUMBER: J-1237
CAPACITY: 4700 PSI
DEPTH: 7046 FT

SHUT-IN #1:

PRODUCING TIME (T_P): 59.6 MIN
FINAL FLOW PRESSURE (P_{WF}): 32 PSIG
PLOT ELAPSED TIME RANGE: 61.0 TO 119.9 MIN
SHUT-IN ΔT TIME RANGE: 1.4 TO 60.3 MIN

PRESSURE (PSIG)



FIELD REPORT NO. 15494D

INSTRUMENT:

NUMBER: J-1237

CAPACITY: 4700 PSI

DEPTH: 7046 FT

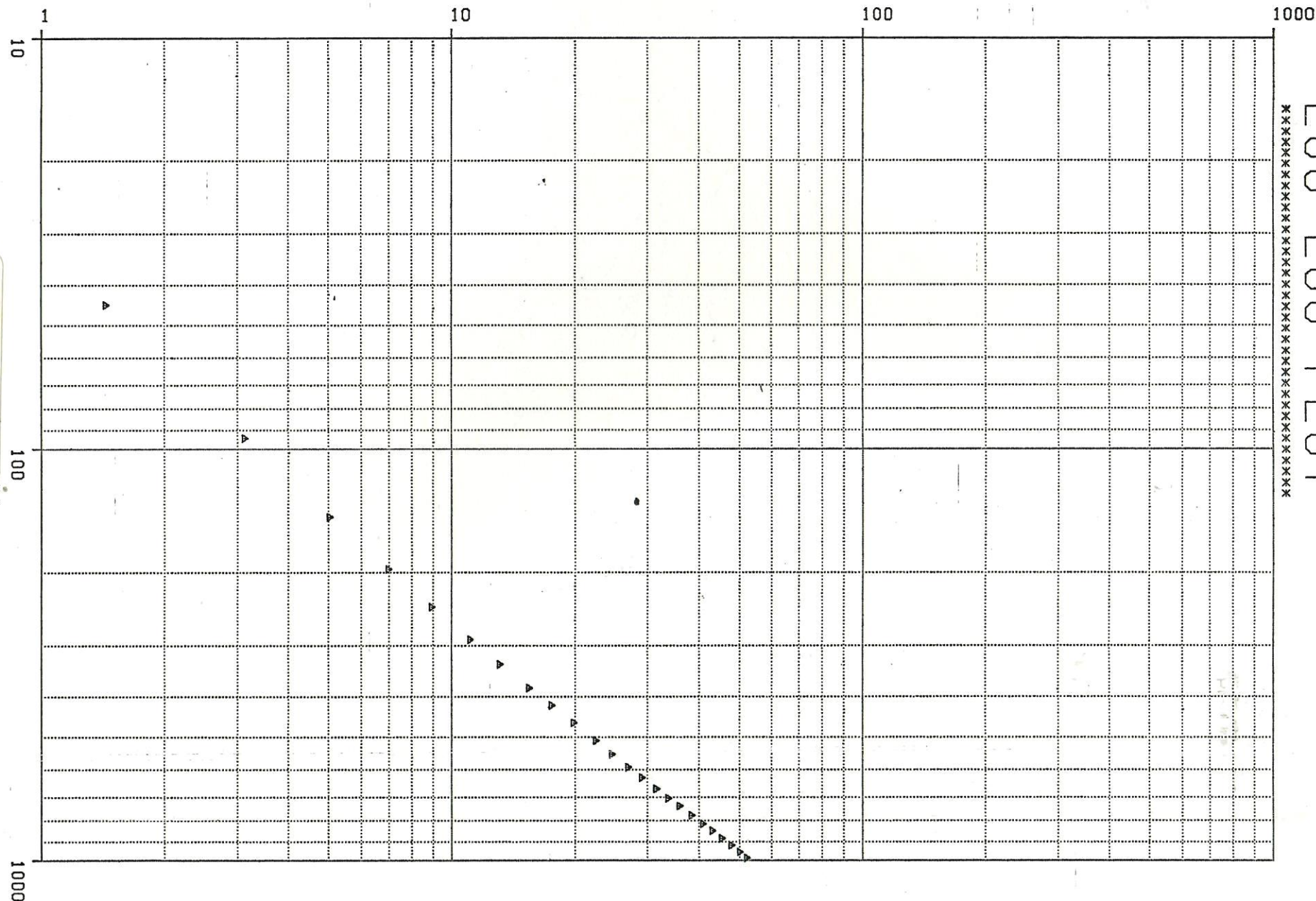
SHUT-IN #1:

FINAL FLOW PRESSURE (P_{WF}): 32 PSIG

PLOT ELAPSED TIME RANGE: 61.0 TO 111.7 MIN

SHUT-IN ΔT TIME RANGE: 1.4 TO 52.2 MIN

ΔT (MIN)



FIELD REPORT NO. 15494D

INSTRUMENT:

NUMBER: J-1237

CAPACITY: 4700 PSI

DEPTH: 7046 FT

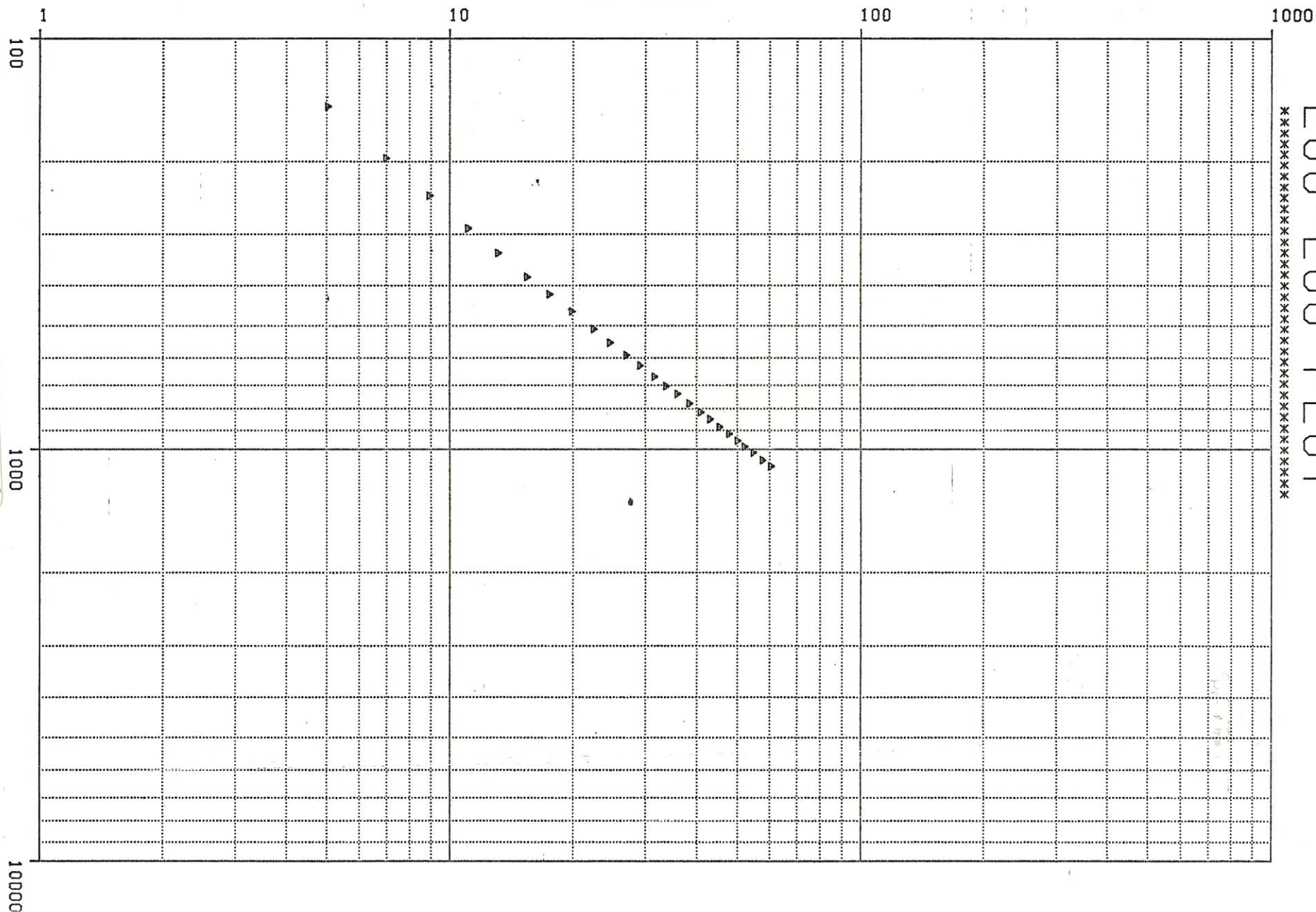
SHUT-IN #1:

FINAL FLOW PRESSURE (P_{WF}): 32 PSIG

PLOT ELAPSED TIME RANGE: 64.6 TO 119.9 MIN

SHUT-IN ΔT TIME RANGE: 5.0 TO 60.3 MIN

ΔT (MIN)



LOG-LOG PLOT

WELL IDENTIFICATION

COMPANY:	AMERICAN QUASAR PETROLEUM COMPANY	CUSTOMER:	SAME
	204 SUPERIOR BLDG.; 201 N. WOLCOTT		
	CASPER, WYOMING 82601		
WELL:	BENTON #13-31	LOCATION:	SEC. 13 - T3S - R85W
TEST INTERVAL:	7040' TO 7083'	FIELD:	WILD CAT
TEST NO:	1	TEST DATE:	11-4-79
COUNTY:	EAGLE	STATE:	COLORADO
TECHNICIAN:	RICHARDS (VERNAL)	TEST APPROVED BY:	MR. GARY SMITH

EQUIPMENT AND HOLE DATA

TEST TYPE:	M.F.E. OPEN HOLE	DRILL PIPE LENGTH:	6375	FT.
ELEVATION:	-	DRILL PIPE I.D.:	2.7	IN.
TOTAL DEPTH:	7083	DRILL COLLAR LENGTH:	628	FT.
MAIN HOLE/CASING SIZE:	6 1/2	DRILL COLLAR I.D.:	1.75	IN.
RAT HOLE/LINER SIZE:	-	PACKER DEPTHS:	7034 & 7040	FT.
FORMATION TESTED:	MINTURN		&	FT.
NET PROD. INTERVAL:	21	DEPTHS REF. TO:	KELLY BUSHING	FT.
POROSITY:	-			%

TEST TOOL CHAMBER DATA

SAMPLER PRESSURE:	0	PSIG
RECOVERED OIL GRAVITY:	- API @	DEG. F.
RECOVERY GOR:	-	FT3/BBL.

SAMPLE CHAMBER CONTENTS

FLUID	VOLUME	RESIST. (OHM-M)	MEAS. TEMP. (DEG F.)	CHLOR. (PPM)
GAS:	- FT.3			
OIL:	- CC			
WATER:	- CC			
MUD:	1800 CC	2.6	40	-
FILTRATE:		1.4	39	1000
TOTAL LIQUID:	1800 CC			

MUD DATA

TYPE:	POLYMAR
WEIGHT:	8.5 LB/GAL.
VISCOSITY:	35 SEC.
WATER LOSS:	- CC
FLUID	RESIST (OHM-M) TEMP (DEG F) CHLOR (PPM)
MUD:	2.0 43
FILTRATE:	1.4 43 1000

REMARKS

NO. OF REPORTS REQUESTED: 13 (7X)

FIELD REPORT NO. 15494D

SURFACE INFORMATION

DESCRIPTION(RATE OF FLOW)	TIME	PRESSURE PSIG	SURFACE CHOKE
OPENED TOOL SLIGHT BLOW, INCREASING	0922	-	11/64"
CLOSED FOR FINAL SHUT-IN	0923	1.5	"
FINISHED SHUT-IN	1022	1.5	"
PULLED PACKER LOOSE	1122	-	"
	1124	-	"
CUSHION TYPE: -	- FT	- PSIG	15/16 IN. BOTTOM CHOKE

RECOVERY INFORMATION

RECOVERY	FEET	BARRELS	%OIL	%WATER	%OTHERS	API GRAV.	DEG.	RESIST	DEG.	CHL PPM
IGHTLY GAS CUT DRILLING LUID	30	.09	-	-	-	-	-	2	43	1000

FIELD REPORT NO. 15494D

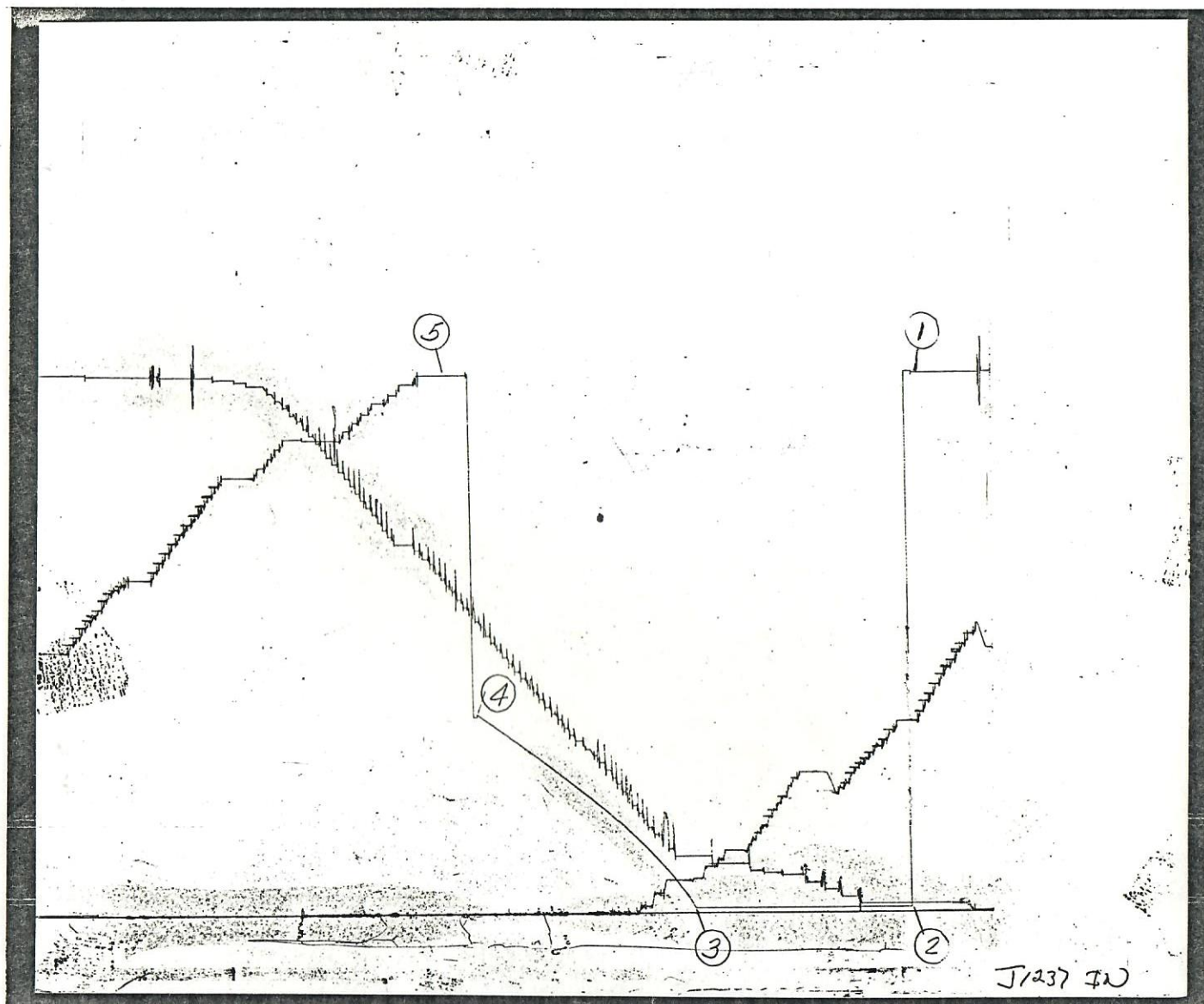
FIELD REPORT NO.: 15494 D

CAPACITY: 4700#

INSTRUMENT NO.: J-1237

NUMBER OF REPORTS: 13+

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PRESSURE LOG

FIELD REPORT NO. 15494D

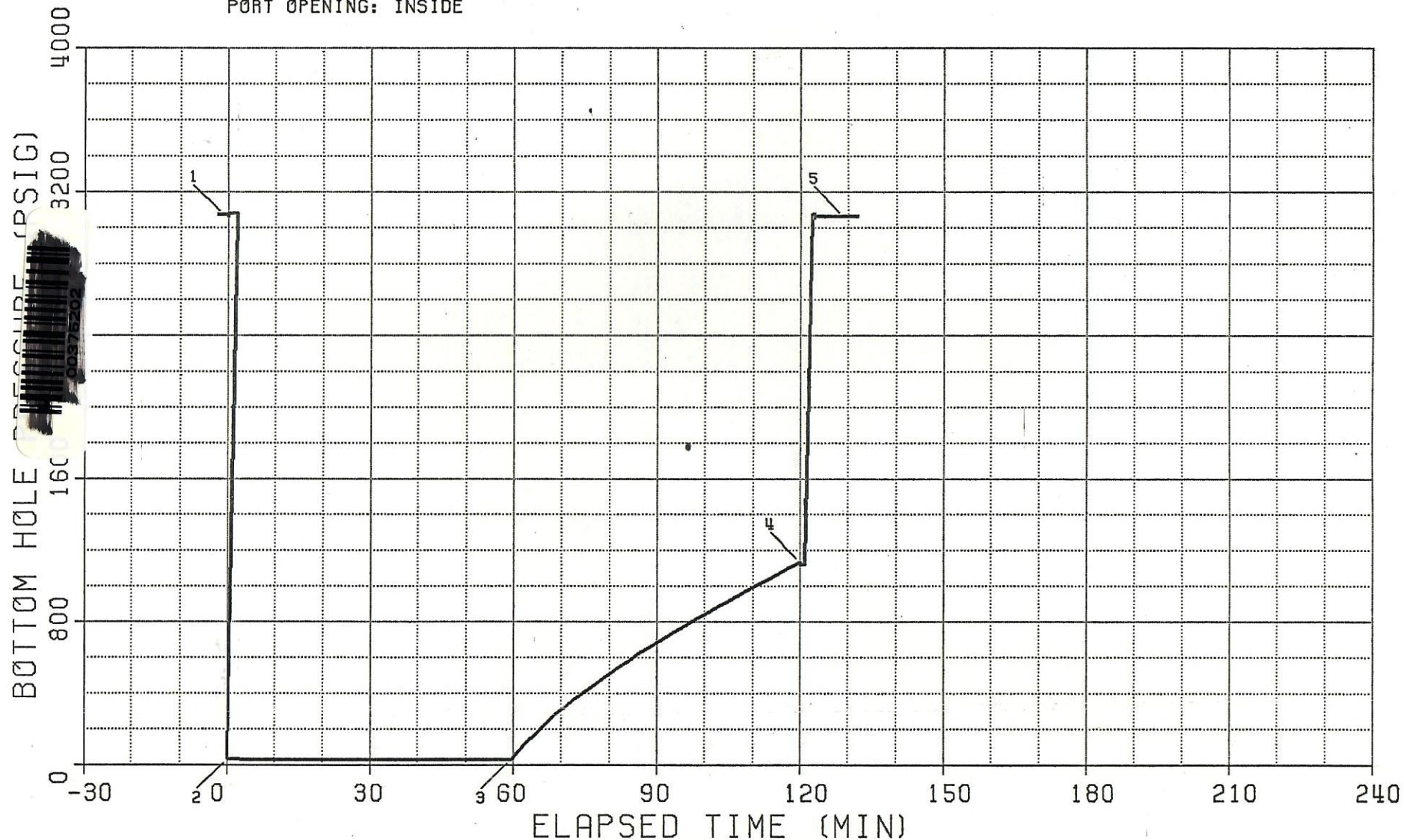
INSTRUMENT:

NUMBER: J-1237

CAPACITY: 4700 PSI

DEPTH: 7046 FT

PORT OPENING: INSIDE



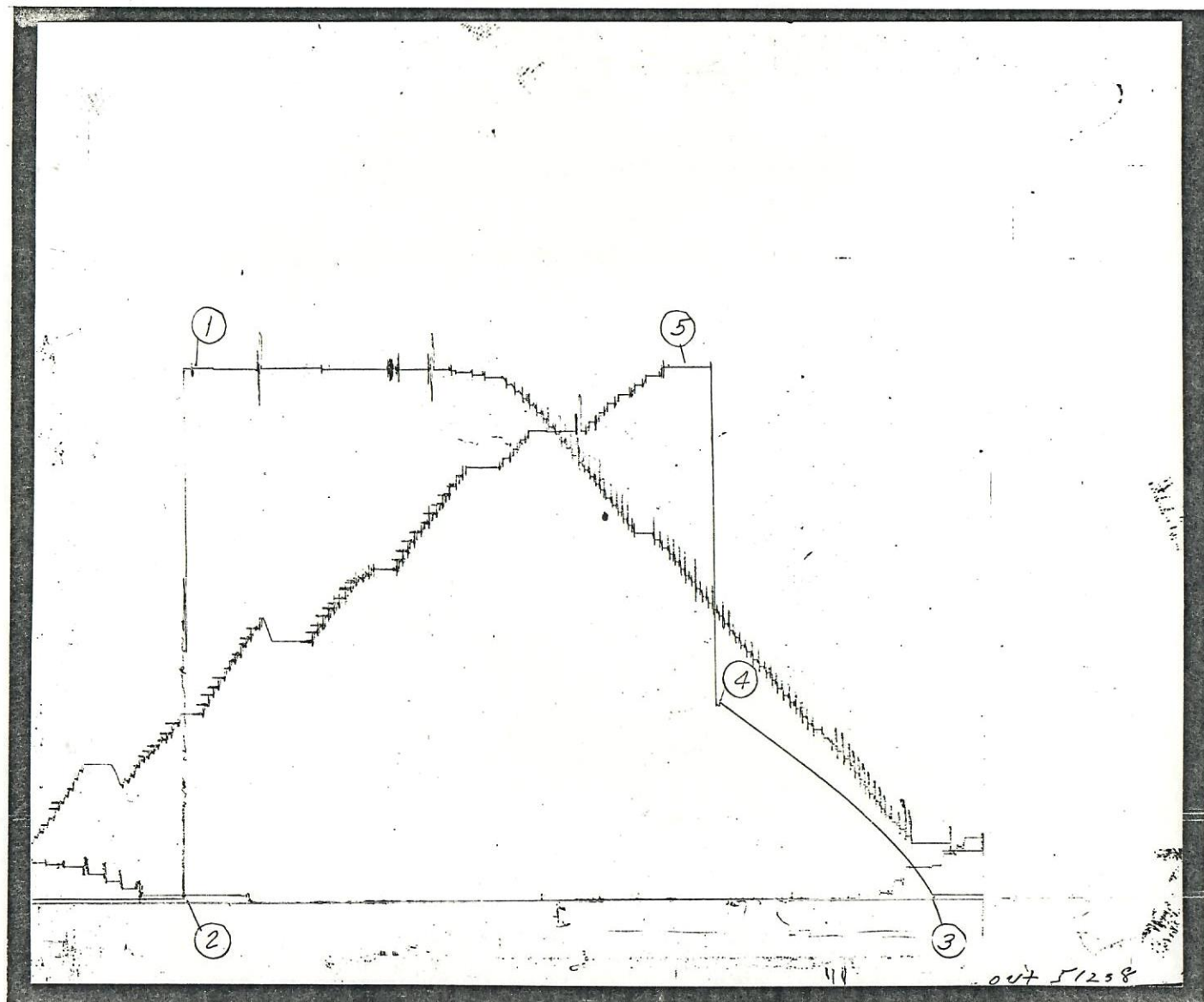
FIELD REPORT NO.: 15494 D

CAPACITY: 4700#

INSTRUMENT NO.: J-1238

NUMBER OF REPORTS: 13+

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BOTTOM HOLE PRESSURE AND TIME DATA

INSTRUMENT NO.: J-1238
PORT OPENING: OUTSIDE

CAPACITY (PSI): 4700
BOTTOM HOLE TEMP (F): 142

DEPTH (FT): 7052

EXPLANATION	LABELED POINT	PRESSURE (PSIG)	ELAPSED TIME (MIN)
HYDROSTATIC MUD	1	3076	-3.7
START FLOW	2	36	0.0
END FLOW & START SHUT-IN	3	35	59.1
END SHUT-IN	4	1139	120.1
HYDROSTATIC MUD	5	3062	130.7

***** * 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)
1	0.0	59.1	59.1	36	35

***** * 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)
1	59.1	120.1	61.0	35	1139	35	59.1