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**JOHNSTON-MACCO**  
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**technical  
report**

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FIELD REPORT # 32253 D

COMPANY ANADARKO PRODUCTION COMPANY WELL SMITH #B-1 TEST NO. 1 COUNTY MOFFAT STATE COLORADO



# WELL IDENTIFICATION

COMPANY:	ANADARKO PRODUCTION COMPANY	CUSTOMER:	SAME
	P.O. BOX 5050		
	DENVER, COLORADO 80217		
WELL:	SMITH #B-1	LOCATION:	SEC. 24 - T8N - R91W
TEST INTERVAL:	3730' TO 3877'	FIELD:	WILD CAT
TEST NO:	1	TEST DATE:	12-7-80
COUNTY:	MOFFAT	STATE:	COLORADO
TECHNICIAN:	TORGENSON (VERNAL)	TEST APPROVED BY:	MR. CLIFF WOMACK

# EQUIPMENT AND HOLE DATA

TEST TYPE:	M.F.E. OPEN HOLE	DRILL PIPE LENGTH:	-	FT.
ELEVATION:	6710	DRILL PIPE I.D.:	-	IN.
TOTAL DEPTH:	3877	DRILL COLLAR LENGTH:	-	FT.
MAIN HOLE/CASING SIZE:	7 7/8	DRILL COLLAR I.D.:	-	IN.
RAT HOLE/LINER SIZE:	-	PACKER DEPTHS:	3726 & 3730	FT.
FORMATION TESTED:	LEWIS SANDS		&	FT.
NET PROD. INTERVAL:	-		&	FT.
POROSITY:	15	DEPTHS REF. TO:	KELLY BUSHING	

# TEST TOOL CHAMBER DATA

SAMPLER PRESSURE:	110	PSIG
RECOVERED OIL GRAVITY:	-	API @
RECOVERY GOR:	-	DEG. F.
		FT3/BBL.

# SAMPLE CHAMBER CONTENTS

FLUID	VOLUME	RESIST. (OHM-M)	MEAS. TEMP. (DEG F.)	CHLOR. (PPM)
GAS:	.12 FT.3			
OIL:	- CC			
WATER:	- CC			
MUD:	2000 (GAS CUT) CC	3.5	63	-
FILTRATE:		-	-	300
TOTAL LIQUID:	2000 CC			

# MUD DATA

TYPE:	LSND
WEIGHT:	9.1 LB/GAL.
VISCOSITY:	55-65 SEC.
WATER LOSS:	0.2-0.5 CC
FLUID	RESIST TEMP CHLOR (OHM-M) (DEG F) (PPM)
MUD:	3.5 62
FILTRATE:	- 350

# REMARKS

DRILL PIPE KEPT SLIDING INTO HOLE WHILE CYCLING TOOL. REMOVED CONTROL HEAD AND ADDED JOINT OF D.P. TO FACILITATE CYCLING.

NO. OF REPORTS REQUESTED: 10 (4X)

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----- SURFACE INFORMATION -----

DESCRIPTION(RATE OF FLOW)	TIME	PRESSURE PSIG	SURFACE CHOKE
SET PACKER	1023	-	1/4"
OPENED TOOL	1026	1	"
BLOW, 8" IN WATER		1	"
CLOSED FOR INITIAL SHUT-IN	1056	-	"
FINISHED SHUT-IN	1156	-	"
RE-OPENED TOOL	1159	-	"
BLOW, 1" IN WATER	1245	0	"
BLOW, 2" IN WATER	1300	0	"
BLOW, 1 1/2" IN WATER	1315	0	"
BLOW, 3/4" IN WATER	1330	0	"
BLOW, 3/4" IN WATER	1345	0	"
BLOW, 3/4" IN WATER	1400	0	"
BLOW, 1/2" IN WATER	1415	0	"
BLOW, 1/2" IN WATER	1430	0	"
BLOW, 1/2" IN WATER	1440	0	"
CLOSED FOR FINAL SHUT-IN	1440	-	"
FINISHED SHUT-IN	1840	-	"
PULLED PACKER LOOSE	1850	-	"

CUSHION TYPE: -	- FT	- PSIG	15/16 IN. BOTTOM CHOKE
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----- RECOVERY INFORMATION -----

RECOVERY	FEET	BARRELS	%OIL	%WATER	%OTHERS	API GRAV.	DEG.	RESIST	DEG.	CHL PPM
MUD	300									
TOP SAMPLE								3.5	60	350
MIDDLE SAMPLE								3.5	64	350
BOTTOM SAMPLE								3.5	62	350

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24-8N-9Wd

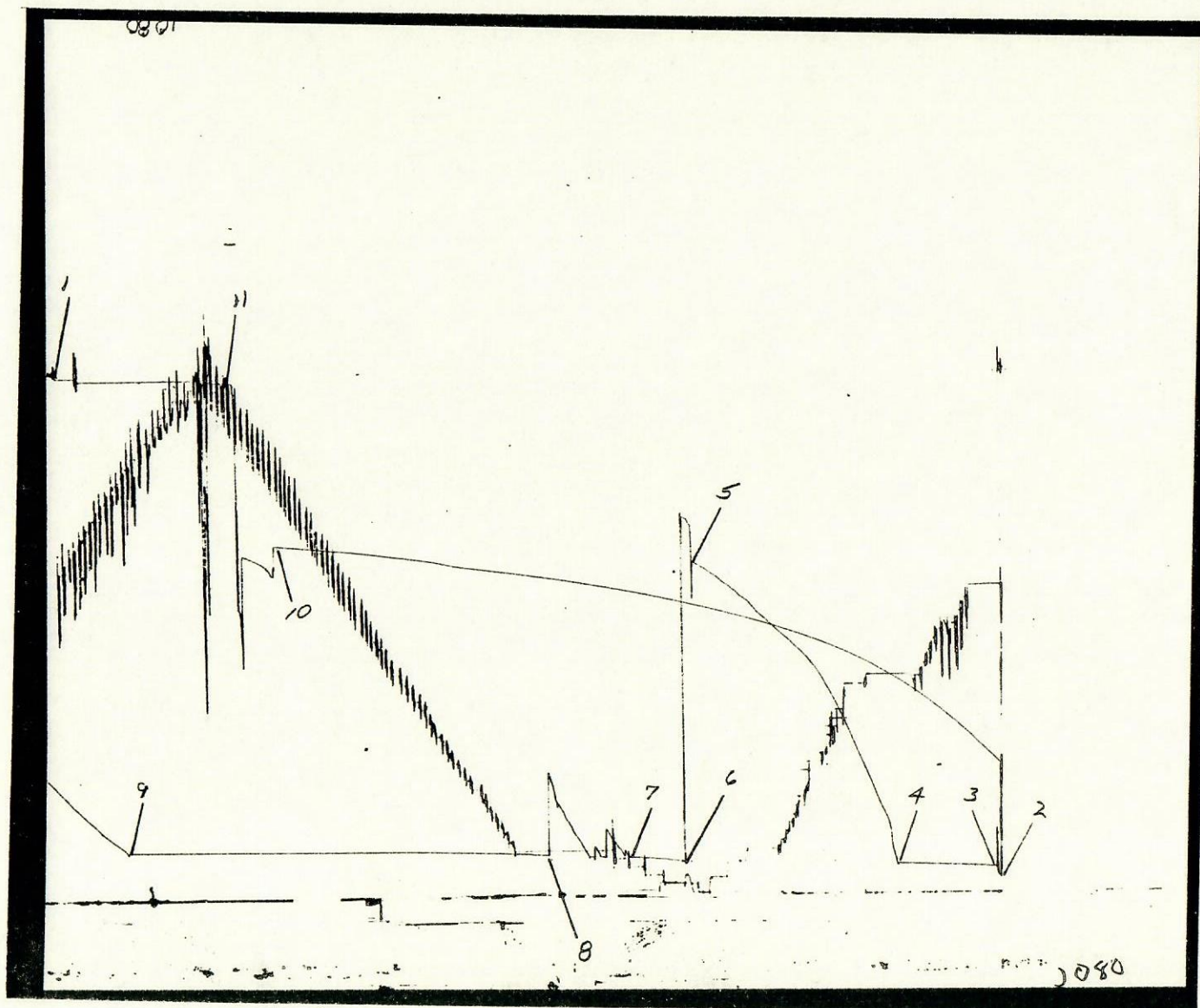
FIELD REPORT NO.: 32253 D

CAPACITY: 2800#

INSTRUMENT NO.: J-080

NUMBER OF REPORTS: 10-

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# PRESSURE LOG

FIELD REPORT NO. 32253D

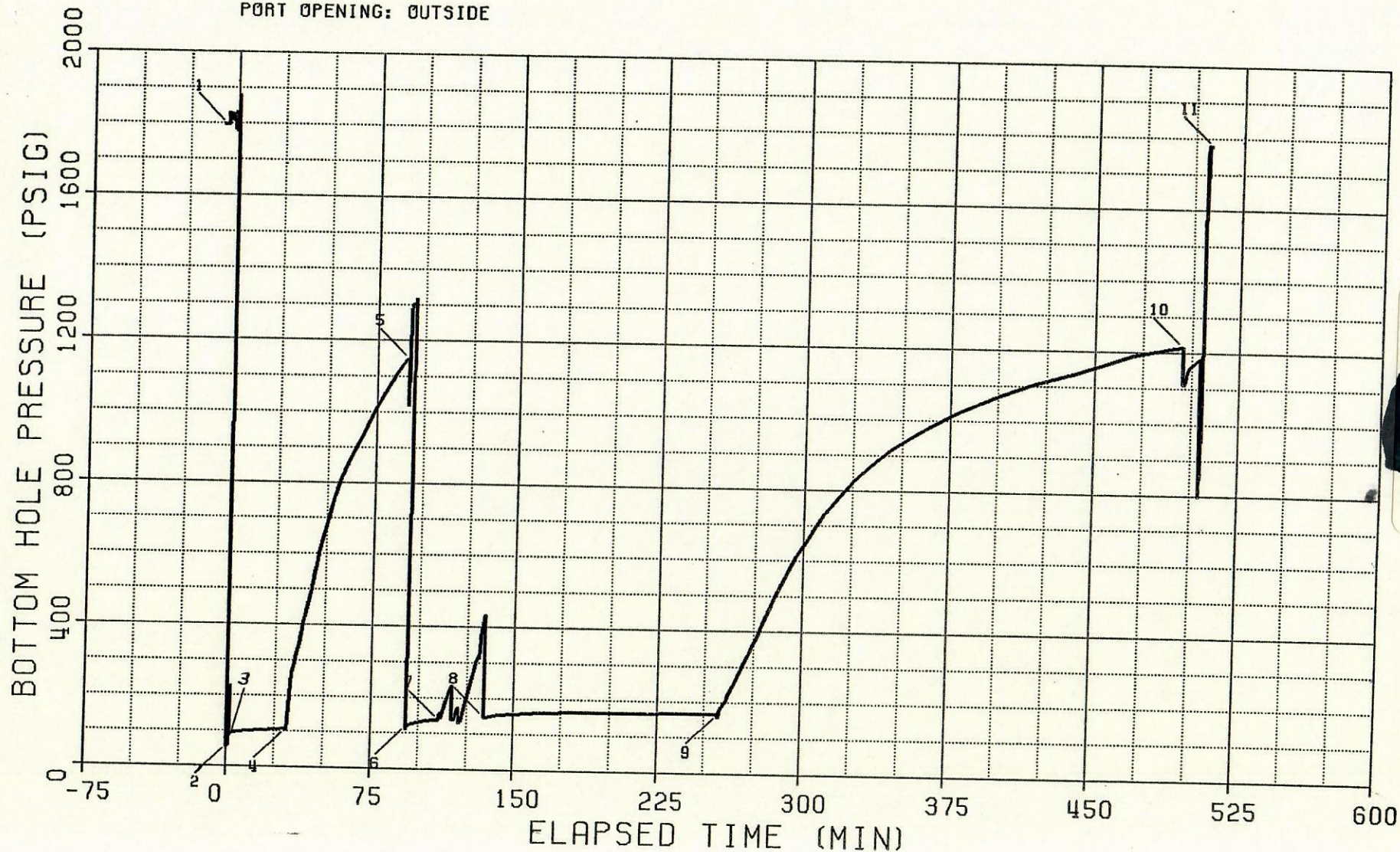
INSTRUMENT:

NUMBER: J-080

CAPACITY: 2800 PSI

DEPTH: 3735 FT

PORT OPENING: OUTSIDE





# BOTTOM HOLE PRESSURE AND TIME DATA

INSTRUMENT NO.: J-080  
PORT OPENING: OUTSIDE

CAPACITY (PSI): 2800  
BOTTOM HOLE TEMP (F): 108

DEPTH (FT): 3735  
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EXPLANATION	LABELED POINT	PRESSURE (PSIG)	ELAPSED TIME (MIN)
HYDROSTATIC MUD	1	1797	-5.8
START FLOW	2	61	0.0
FLOW POINT	3	93	1.5
END FLOW & START SHUT-IN	4	106	30.5
END SHUT-IN	5	1148	91.3
START FLOW	6	121	93.5
CYCLED TOOL	7	138	110.2
CYCLED TOOL	8	148	133.9
END FLOW & START SHUT-IN	9	167	256.5
END SHUT-IN	10	1216	495.4
HYDROSTATIC MUD	11	1778	508.7

## \*\*\*\*\* \* 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	30.5	30.5	61	106
2	93.5	256.5	163.0	121	167

## \*\*\*\*\* \* 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	30.5	91.3	60.8	106	1148	106	30.5
2	256.5	495.4	238.9	167	1216	167	193.5



0.0	0.0	61
5.0	5.0	95
10.0	10.0	98
15.0	15.0	101
20.0	20.0	103
25.0	25.0	105
30.0	30.0	106
30.5	30.5	106

1. FINAL FLOW PRESSURE ["P "] = 106 PSIG
2. PRODUCING TIME ["T "] = 30.5 MIN

ELAPSED TIME (MIN) *****	DELTA TIME ["DT"] (MIN) *****	SHUT-IN PRESSURE ["P " WS (PSIG) *****	LOG [(T +DT)/DT] P *****	DELTA PRESSURE [P - P ] WS WF *****
30.5	0.0	106		0
31.5	1.0	147		41
32.5	2.0	206	1.498	99
33.5	3.0	262	1.211	156
34.5	4.0	287	1.048	181
35.5	5.0	311	0.936	205
36.5	6.0	334	0.851	228
37.5	7.0	359	0.784	253
38.5	8.0	386	0.729	280
39.5	9.0	413	0.682	306
40.5	10.0	439	0.642	333
42.5	12.0	491	0.607	385
44.5	14.0	545	0.549	438
46.5	16.0	599	0.502	492
48.5	18.0	646	0.463	540
50.5	20.0	691	0.430	585
52.5	22.0	733	0.402	627
54.5	24.0	770	0.378	664
56.5	26.0	803	0.356	697
58.5	28.0	830	0.337	723
60.5	30.0	854	0.320	747
65.5	35.0	907	0.304	801
70.5	40.0	960	0.272	854
75.5	45.0	1019	0.246	913
80.5	50.0	1066	0.225	960
85.5	55.0	1110	0.207	1003
			0.192	

FIELD REPORT NO. 32253D  
INSTRUMENT NO. J-080TEST PHASE : SHUT-IN PERIOD # 1  
\*\*\*\*\*

1. FINAL FLOW PRESSURE ["P "] = 106 PSIG

2. PRODUCING TIME ["T "]  
P<sup>WF</sup> = 30.5 MIN

ELAPSED TIME (MIN)	DELTA TIME ["DT"] (MIN)	SHUT-IN PRESSURE ["P "] WS (PSIG)	LOG [(T +DT)/DT] P	DELTA PRESSURE [P - P ] WS WF
90.5	60.0	1146	0.178	1040
91.3	60.8	1148	0.176	1042

TEST PHASE : FLOW PERIOD # 2  
\*\*\*\*\*

ELAPSED TIME (MIN)	DELTA TIME (MIN)	FLOWING PRESSURE (PSIG)
93.5	0.0	121
103.5	10.0	136
113.5	20.0	180
123.5	30.0	174
133.5	40.0	424
143.5	50.0	155
153.5	60.0	159
163.5	70.0	162
173.5	80.0	163
183.5	90.0	164
193.5	100.0	164
203.5	110.0	165
213.5	120.0	166
223.5	130.0	166
233.5	140.0	167
243.5	150.0	167
253.5	160.0	167
256.5	163.0	167





FIELD REPORT NO. 32253D  
INSTRUMENT NO. J-080TEST PHASE : SHUT-IN PERIOD # 2  
\*\*\*\*\*

1. FINAL FLOW PRESSURE ["P " ] = 167 PSIG

2. PRODUCING TIME ["T " ] = 193.5 MIN  
P

ELAPSED TIME (MIN) *****	DELTA TIME ["DT"] (MIN) *****	SHUT-IN PRESSURE ["P " ] WS (PSIG) *****	LOG [(T +DT)/DT] P *****	DELTA PRESSURE [P - P ] WS WF *****
256.5	0.0	167		0
257.5	1.0	175		7
258.5	2.0	184	2.289	17
259.5	3.0	193	1.990	26
260.5	4.0	202	1.816	34
261.5	5.0	217	1.693	50
262.5	6.0	226	1.599	59
263.5	7.0	238	1.522	70
264.5	8.0	249	1.457	82
265.5	9.0	260	1.401	93
266.5	10.0	271	1.352	104
268.5	12.0	293	1.309	126
270.5	14.0	315	1.234	148
272.5	16.0	336	1.171	169
274.5	18.0	360	1.117	193
276.5	20.0	384	1.070	217
278.5	22.0	408	1.028	241
280.5	24.0	432	0.991	265
282.5	26.0	457	0.957	289
284.5	28.0	481	0.926	314
286.5	30.0	504	0.898	337
296.5	40.0	610	0.872	443
306.5	50.0	700	0.766	532
316.5	60.0	773	0.687	605
326.5	70.0	833	0.626	665
336.5	80.0	882	0.576	715
346.5	90.0	922	0.534	755
356.5	100.0	957	0.498	789
366.5	110.0	987	0.468	819
376.5	120.0	1015	0.441	848
386.5	130.0	1040	0.417	872
396.5	140.0	1063	0.396	896
406.5	150.0	1082	0.377	915
416.5	160.0	1101	0.360	933
426.5	170.0	1117	0.344	949
436.5	180.0	1132	0.330	965
446.5	190.0	1149	0.317	981
456.5	200.0	1166	0.305	999
466.5	210.0	1183	0.294	1016
476.5	220.0	1197	0.284	1029
486.5	230.0	1208	0.274	1041
495.4	238.9	1216	0.265	1048
			0.258	