

JOHNSTON-MACCO
Schlumberger

**technical
report**

CONFIDENTIAL

FIELD REPORT NO. 38388E

COMPANY MOSBACHER PRODUCTION COMPANY WELL TENNECO FED.-1 TEST NO 13174'-13559' COUNTY LEA STATE NEW MEXICO

* TEST TICKET DATA PRINTOUT *

WELL IDENTIFICATION

1. WELL	:	TENNECO FED.-1
2. COMPANY	:	MOBBACHER PRODUCTION COMPANY
3.	:	1300 MAIN, SUITE 2100
4.	:	HOUSTON, TEXAS 77002
5. CUSTOMER	:	SAME
6.	:	
7.	:	
8. FIELD	:	WILDCAT (S.DENTON)
9. COUNTY	:	LEA
10. STATE/PROV.	:	NEW MEXICO
11. LOCATION	:	
12. TECHNICIAN	:	SERIE (HOBBS)
13. TEST APPROVED BY	:	MR. J. WEBER
14. TEST DATE	:	7-16-92
15. DEPTH REFERENCE	:	KELLY BUSHING
16. DEPTH REFERENCE ELEVATION	:	S.L. FT

HOLE INFORMATION

1. THE HOLE IS STRAIGHT.	:	
2. TOTAL DEPTH	:	13559. FT
3. OPEN HOLE DIAMETER	:	9.50 IN

MUD INFORMATION

1. MUD TYPE	:	LOW SOLIDS
2. MUD WEIGHT	:	9.2 LB/GAL
3. MUD VISCOSITY	:	98. MARSH FUNNEL SEC
4. CORRECTED WATER LOSS	:	9.0 CC/30 MIN
5. MUD RESISTIVITY	:	2.30 OHM-M
6. MUD RES. MEAS. TEMP.	:	89.0 DEG F
7. MUD FILTRATE RESISTIVITY	:	2.30 OHM-M
8. MUD FILT. RES. MEAS. TEMP.	:	89.0 DEG F
9. MUD CHLORIDES CONTENT	:	4100.0 PPM BY WEIGHT

 * TEST TICKET DATA PRINTOUT *

TEST INFORMATION

1. FIELD REPORT NUMBER : 38388E
 2. TEST TYPE : WFE OPEN HOLE
 3. TEST NUMBER : 1
 4. TELEFLOW IN USE ? : NO
 5. SSOR OR J-300 IN USE ? : NO
 6. SPRO IN USE ? : NO
 7. PTSDL IN USE ? : NO

TEST STRING INFORMATION

#	COMPONENT NAME	EFFECTIVE I.O. (IN)	O.D. (IN)	FLOW PATH LENGTH (FT)
1	DRILL PIPE	3.83	4.50	12262.
2	DRILL COLLARS	2.25	4.50	871.
3	TOOL STRING	0.94	5.00	426.

TEST STRING PLACEMENT

1. TEST TYPE CODE 1 - ON BOTTOM
 2. PACKER DEPTHS : 13162. FT & 13174. FT

TEST ZONE DESCRIPTION

FORMATION NAME	PRODUCTION ZONE			POROSITY (%)
	TOP (FT)	BOTTOM (FT)	THICKNESS (FT)	
1				

TEST CONDITIONS

1. BOTTOMHOLE CHOKE(S) EFF. INTERNAL DIA. : 0.94 IN
 2. LIQUID CUSHION TYPE : WATER
 3. CUSHION LENGTH : 1500. FT
 4. CUSHION WEIGHT : 8.34 LB/GAL

 * TEST TICKET DATA PRINTOUT *

TEST TOOL SAMPLE CHAMBER RECOVERY DATA

SAMPLE PRESSURE : 2000. PSIG
 OIL GRAVITY : DEG. API @ DEG F
 GAS/OIL RATIO : FT3/BBL
 GAS/LIQUID RATIO : FT3/BBL

SAMPLE CHAMBER CONTENTS

FLUID	VOLUME	RESISTIVITY	CHLORIDES
GAS	FT3		
OIL	CC		
WATER	2200.0 CC	0.35 OHM-M @ 80.0 DEG F	30000. PPM
MUD	CC	OHM-M @ DEG F	
TOTAL LIQUID	2200.0 CC		

RECOVERY INFORMATION

DESCRIPTION	FEET	% OIL H2O OTH			API DEG. DEG.F		RESISTIVITY OHM-M DEG.F		CHL PPM
		% OIL	% H2O	OTH	DEG.	DEG.F	OHM-M	DEG.F	PPM
1 FRESH WATER, DRILLING FLUID & SULFUR WATER	4754								
TOP SAMPLE	1500		100				2.80	88	1000.
MIDDLE SAMPLE	2000		40	60			0.34	86	27000.
BOTTOM SAMPLE	1264		100				0.36	82	30000.

SURFACE INFORMATION

DESCRIPTION	TIME	PRESSURE	CHOKE SIZE
1 SET PACKER (7-16-82)	0643	-	-
2 OPENED TOOL	0645	-	1/8"
3	0650	.14	"
4	0655	.30	"
5 CYCLED TOOL	0700	-	-
6 CYCLED TOOL	0707	-	-
7 RE-OPENED TOOL	0708	-	1/8"
8 CLOSED FOR INITIAL SHUT-IN	0720	-	"
9 FINISHED SHUT-IN	0820	-	"
10 RE-OPENED TOOL	0821	-	"
11	0826	.10	"
12	0836	.30	"

* TEST TICKET DATA PRINTOUT *

DESCRIPTION	TIME	PRESSURE	CHOKE SIZE
13 BLOW TO BOTTOM OF BUCKET	0841	.40	"
14	0851	.50	"
15	0906	.54	"
16	0921	.60	"
17	0936	.63	"
18	0951	.66	"
19	1006	.70	"
20 CLOSED FOR FINAL SHUT-IN	1021	.73	"
21 FINISHED SHUT-IN	1421	-	-
22 PULLED PACKER LOOSE	1422	-	-

FIELD REPORT NO.:

38388E

CAPACITY:

9000E

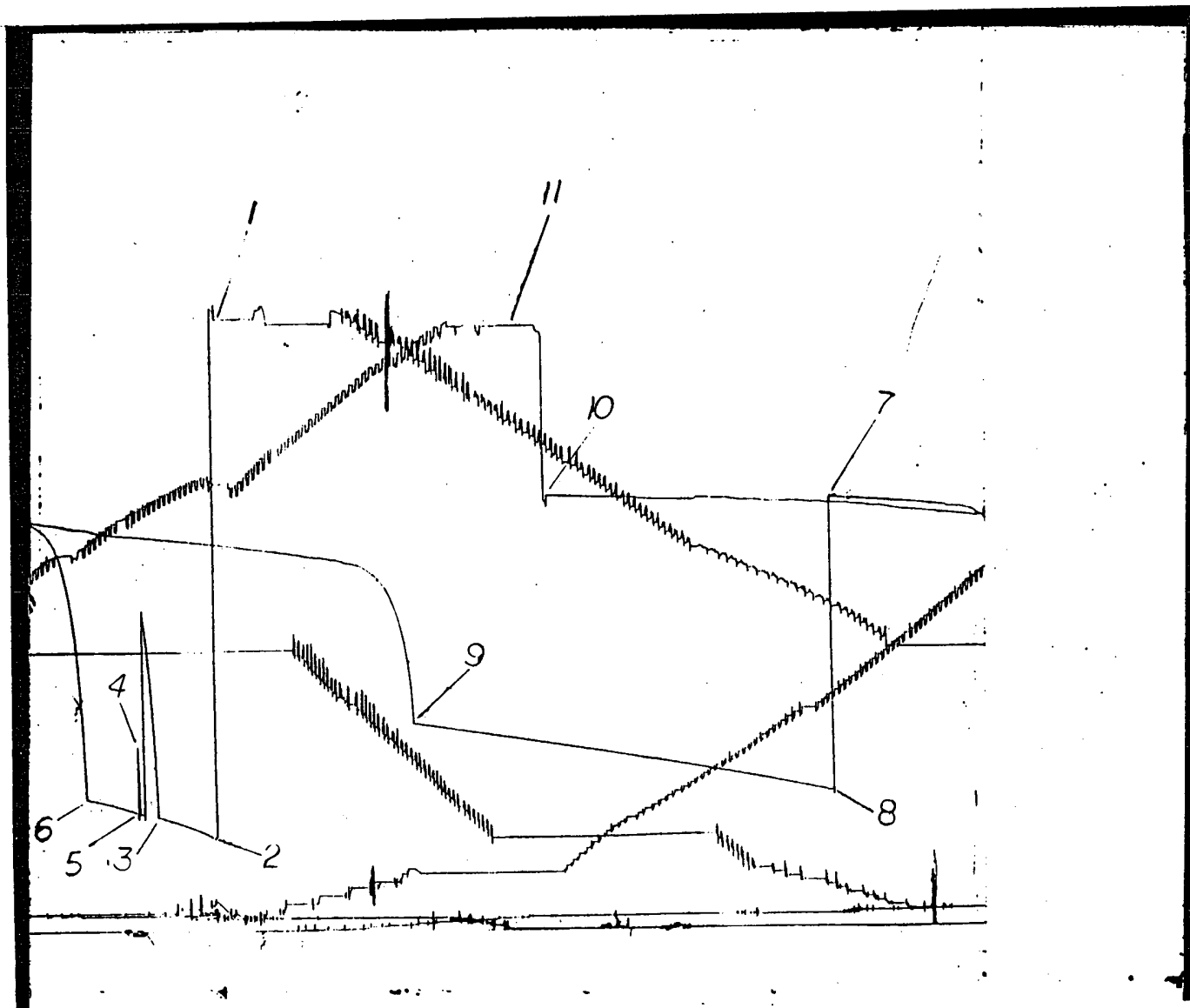
JOHNSTON
Schlumberger

INSTRUMENT NO.:

J-1979

NUMBER OF REPORTS:

5



BOTTOMHOLE PRESSURE LOG

FIELD REPORT NO. 38388E

COMPANY : MOSBACHER PRODUCTION COMPANY

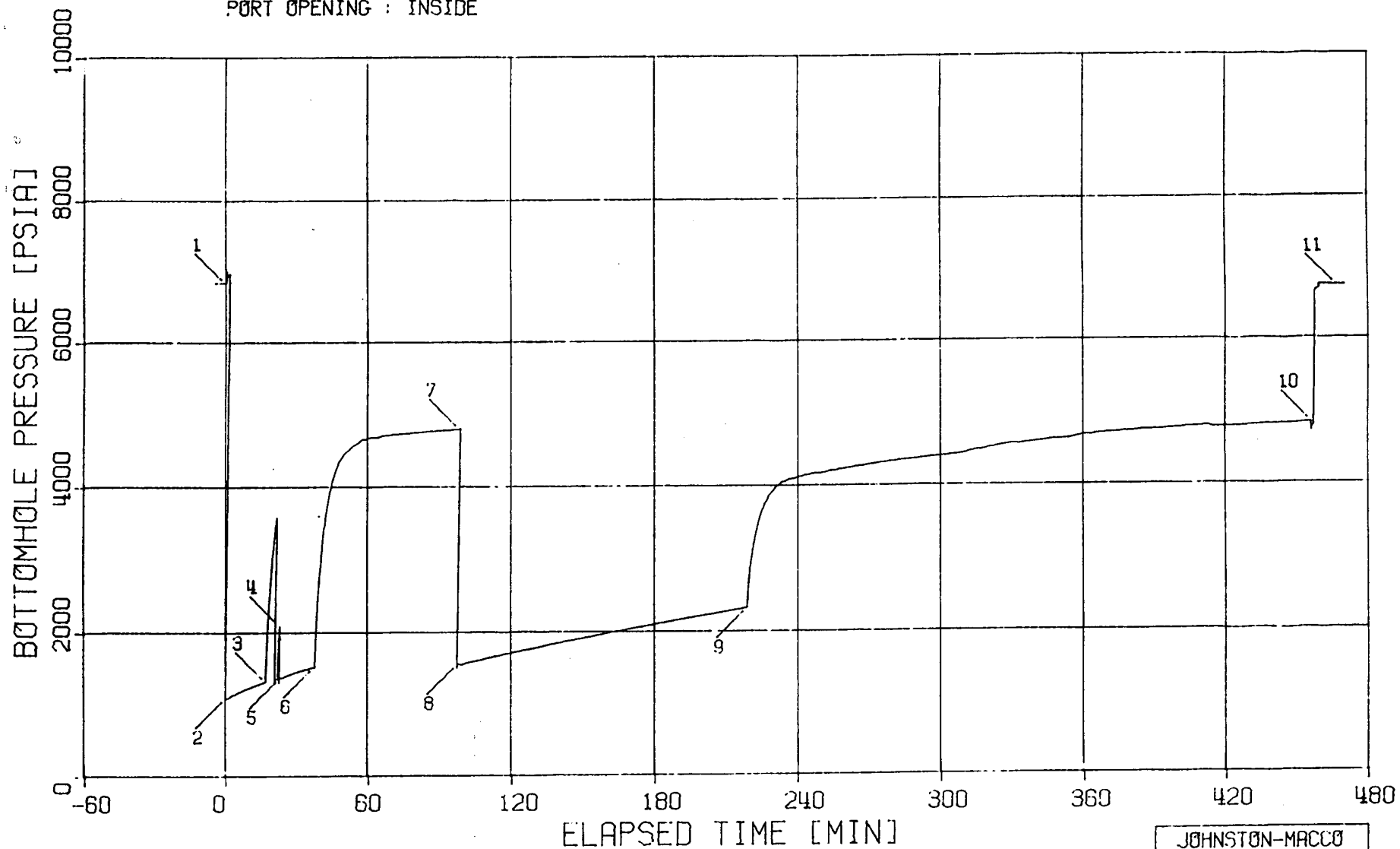
INSTRUMENT NO. J-1979

WELL : TENNECO FED-1

DEPTH : 13547 FT

CAPACITY : 9000 PSI

PORT OPENING : INSIDE



JOHNSTON-MACCO
SCHLUMBERGER

 * WELL TEST DATA PRINTOUT *

FIELD REPORT # : 33388E

COMPANY : MOSSBACHER PRODUCTION COMPANY
 WELL : TENNECO FED-1

INSTRUMENT # : J-1979
 CAPACITY (PSI) : 9000.
 DEPTH (FT) : 13547.0
 PORT OPENING : INSIDE
 TEMPERATURE (DEG F) : 195.0

LABEL POINT INFORMATION

	TIME OF DAY	DATE	EXPLANATION	ELAPSED TIME, MIN	BOT HOLE PRESSURE PSIA
#	HH:MM:SS	DD-MM			
***	*****	*****	*****	*****	*****
1	6:44:25	16-JY	HYDROSTATIC MUD	-0.58	6840
2	6:45:00	16-JY	START FLOW	0.00	1088
3	7:01:48	16-JY	CYCLED TOOL	16.80	1308
4	7:07:58	16-JY	CYCLED TOOL	22.97	2077
5	7:07:52	16-JY	RE-OPENED TOOL	22.86	1358
6	7:22:07	16-JY	END FLOW & START SHUT-IN	37.12	1508
7	8:22:59	16-JY	END SHUT-IN	97.98	4777
8	8:22:18	16-JY	START FLOW	97.30	1548
9	10:23:41	16-JY	END FLOW & START SHUT-IN	218.68	2315
10	14:21:00	16-JY	END SHUT-IN	456.00	4824
11	14:31:29	16-JY	HYDROSTATIC MUD	466.49	6739

SUMMARY OF FLOW PERIODS

PERIOD	START ELAPSED TIME, MIN	END ELAPSED TIME, MIN	DURATION MIN	START PRESSURE PSIA	END PRESSURE PSIA
*****	*****	*****	*****	*****	*****
1	0.00	37.12	37.12	1088	1508
2	97.30	218.68	121.38	1548	2315

SUMMARY OF SHUTIN PERIODS

PERIOD	START ELAPSED TIME, MIN	END ELAPSED TIME, MIN	DURATION MIN	START PRESSURE PSIA	END PRESSURE PSIA	FINAL FLOW PRESSURE PSIA	PRODUCING TIME, MIN
*****	*****	*****	*****	*****	*****	*****	*****
1	37.12	97.98	60.86	1508	4777	1508	37.12

BOTTOM HOLE PRESSURE AND TIME DATA

9-T93A

JOHNSTON-MANCO

Schlumberger

INSTRUMENT NUMBER

J-524

CAPACITY (P.S.I.)

9000#

DEPTH

13122'

PORT OPENING

INSIDE

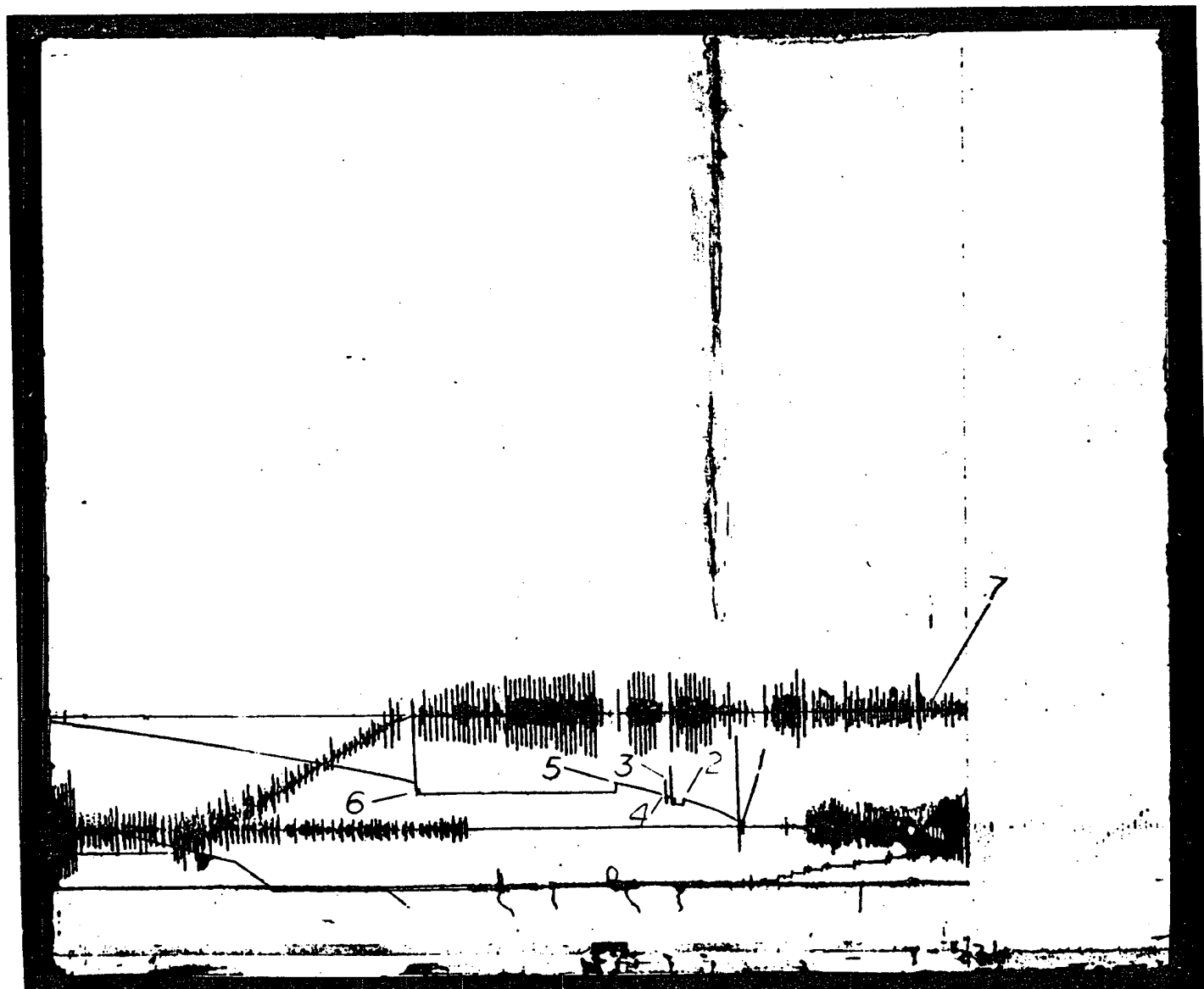
BOTTOM HOLE TEMPERATURE

195°F

FIELD REPORT NUMBER

38388E

DESCRIPTION	LABELED POINTS	PRESSURE (P.S.I.)	GIVEN TIME	COMPUTED TIME
INITIAL HYDROSTATIC MUD				
INITIAL FLOW (1)	1	780		
INITIAL FLOW (2)	5	1096		
INITIAL SHUT-IN				
SECOND FLOW (1)				
SECOND FLOW (2)				
SECOND SHUT-IN				
FINAL FLOW (1)	6	1246		
FINAL FLOW (2)	7	2090		
FINAL SHUT-IN				
FINAL HYDROSTATIC MUD				
REMARKS: CYCLED TOOL	2	1096		
CYCLED TOOL	3	1337		
RE-OPEN TOOL	4	1148		



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NEW MEXICO OIL CONSERVATION COMMISSION

Form O-101
Revised 1-1-65

5A. Title Type of Lease
STATE ☐ FILE ☒
6. Title of Oil & Gas Lease No.
N/A

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work		7. Unit Agreement Name	
b. Type of Well DRILL ☒ DEEPEN ☐ PLUG BACK ☐ OIL WELL ☒ GAS WELL ☐ OTHER ☐ SINGLE ZONE ☒ MULTIPLE ZONE ☐		N/A	
2. Name of Operator Mosbacher Production Co.		8. Name of Lease Name Tenneco Fee	
3. Address of Operator 1300 Main St., Suite 2100, Houston, Tx 77002		9. Well No. 1	
4. Location of Well UNIT LETTER <u>L</u> LOCATED <u>660'</u> FEET FROM THE <u>West</u> LINE AND <u>1980'</u> FEET FROM THE <u>South</u> LINE OF SEC. <u>3</u> TWP. <u>15S</u> RGE. <u>37E</u> NADP		10. Field and Loc. or Allotment Wildcat <u>Sexton - SW</u>	
11. County Lea		12. Primary or G.P.	
13. Proposed Depth 14,000'		14A. Formation Devonian	
14B. Drilling Contractor TOT Drilling		15. Rotary or G.P.	
16. Elevations (Show whether Dr. RL, etc.) GL 3814.7'		17. Bond \$50,000 Blanket	
18. Approx. Date Work will start November 15, 1981			

23. PROPOSED CASING AND CEMENT PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
27-1/2"	20"	94#	45'	Readi-Mix	Surface
17-1/2"	13-3/8"	54.4#	350'	350 sxs C1 H	Surface
12-1/4"	9-5/8"	43.5#&47#	5000'	500 sxs C1 H	3000'

1. MI & RU Rotary Rig. Set 45'± of 20" conductor pipe & cement to surface w/readi-mix cmt.
2. Drill a 17-1/2" hole to 350'. Set 13-3/8" surface pipe & cement back to surface.
3. Install 13-3/8", 3000 psi BOP's. Drill a 12-1/4" hole to 5000'. Run 9-5/8" casing & cement back to 3000'.
4. Install 10", 5000 psi BOP's. Drill a 8-1/2" hole to 14,000'-total depth.
5. Log well, if open hole evaluations warrant, run 5-1/2" production casing to TD.
6. Move off Drilling Rig. Move on Completion Rig, and complete well as per logs.

***Cement on the 9 5/8" casing must be brought from the top of the salt or anhydrite to the surface casing by either circulating with cement or a DV tool at the top of the salt.

APPROVED BY 180
PERMIT NO. 576682
DATE 11/6/81

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: IF PROPOSAL IS TO DEEPEN OR PLUG BACK, GIVE DATA ON PRESENT PRODUCTIVE ZONE AND PROPOSED NEW PRODUCTIVE ZONE. GIVE BLOWOUT PREVENTER PROGRAM, IF ANY.

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

Signed Beverly A. Daus Title Engineering Asst. Date 11/6/81

(This space for State Use)
Orig. Signed By

Jerry Sexton

APPROVED BY Dick L. Supa TITLE DATE NOV 16 1981

CONDITIONS OF APPROVAL, IF ANY:

NOV 16 1981

NOV 16 1981

NEW MEXICO OIL CONSERVATION COMMISS.
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102
Supersedes C-128
Effective 1-1-65

All distances must be from the outer boundaries of the Section

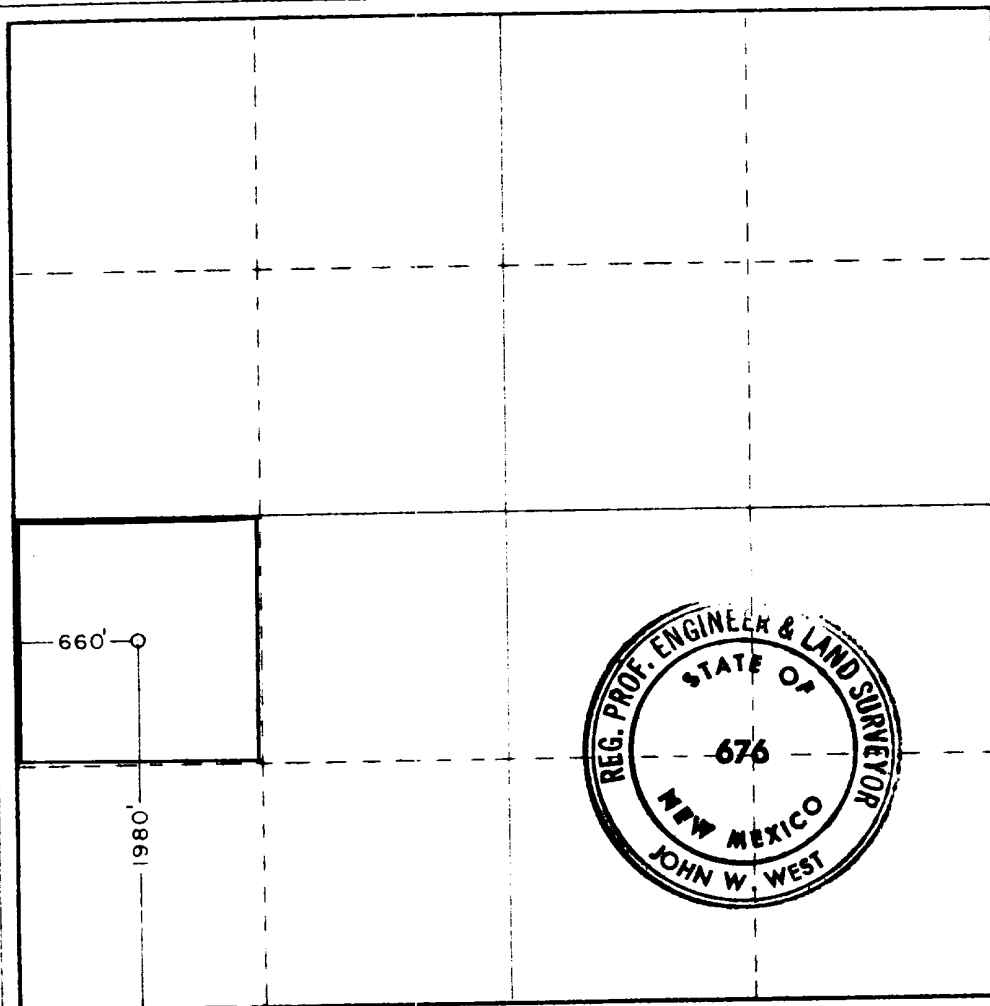
Operator Mosbacher Production Co.			Lease Tenneco Fee		Well No. 1
Init Letter L	Section 3	Township 15 South	Range 37 East	County Lea	
Actual Footage Location of Well: 1980 feet from the South line and 660 feet from the West line					
Ground Level Elev. 3814.7'	Producing Formation Wildcat <i>New.</i>		Pool <i>Denton New.</i> Wildcat	Dedicated Acreage: 40 Acres	

1. Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

☐ Yes ☐ No If answer is "yes," type of consolidation _____

If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) _____

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.



CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Beverly A. Dausin
Name
Beverly A. Dausin

Position
Engineering Asst.

Company
Mosbacher Production Co.

Date
November 6, 1981

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed
Oct. 20, 1981

Registered Professional Engineer and/or Land Surveyor

John W. West

Certificate No. *JOHN W. WEST* 676
PATRICK A. ROMERO 6663
Ronald J. Eidson 3239

330 660 90 1320 1650 1980 2310 2640 2000 1800 1000 500 0

Count 8/12/82
8/12/82
EXT

NOV 1 1981

U.S. DEPT. OF JUSTICE