



STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION
AZTEC DISTRICT OFFICE

1000 RIO BRAZOS ROAD
AZTEC, NEW MEXICO 87410
(505) 334-6178

OIL CONSERVATION DIVISION
BOX 2088
SANTA FE, NEW MEXICO 87501

DATE Sept 24

RE: Proposed MC _____
Proposed DHC ☒ _____
Proposed NSL _____
Proposed SWD _____
Proposed WFX _____
Proposed PMX _____

Gentlemen:

I have examined the application dated Sept. 6, 1985
for the Jensen Oil Co. Flora #19 H-3-30N-9W
Operator Lease and Well No. Unit, S-T-R

and my recommendations are as follows:

Approve

Yours truly,

Frank D. Gray

Tenneco Oil
Exploration and Production
A Tenneco Company

6162 South Willow Drive
P.O. Box 3249
Englewood, Colorado 80155
(303) 740-4800



Western Rocky Mountain Division

August 1, 1985

RECEIVED
SEP 06 1985
OIL CON. DIV.
DIST. 3

New Mexico Oil Conservation Commission
P. O. Box 2088
Santa Fe, New Mexico 87501

Attention: Gilbert Quintana

RE: Florance 19
1650' FNL, 790' FEL
Sec. 3, T30N, R9W
San Juan County, New Mexico

Gentlemen:

We have enclosed all necessary data for administrative approval to commingle production in the referenced well.

Questions concerning this request can be directed to Mr. Frank Weiss (303) 740-4836.

Very truly yours,

TENNECO OIL COMPANY

A handwritten signature in cursive script, appearing to read "Paul Doyle".

Paul Doyle
Division Production Engineer

SMc:st

Enclosures

cc: Mr. Jerry Hertzler
Mr. Frank Weiss ✓

mv

Tenneco Oil
Exploration and Production
A Tenneco Company

6162 South Willow Drive
P.O. Box 3249
Englewood, Colorado 80155
(303) 740-4800



Western Rocky Mountain Division

August 1, 1985

RECEIVED
SEP 06 1985
OIL CON. DIV.
DIST. 3

El Paso Natural Gas
Post Office Box 4990
Farmington, NM 87499

Attention: Don Reed

RE: Florance 19
1650' FNL, 790' FEL
Sec. 3, T30N, R9W
San Juan County, New Mexico

Gentlemen:

Tenneco has applied for administrative approval to commingle production from the Mesaverde and Dakota zones in the above referenced well. If you as an offset operator have no objection to the proposed commingling, please sign the waiver at the bottom of this page and forward to:

New Mexico Oil Conservation Commission
P. O. Box 2088
Santa Fe, New Mexico 87501
Attention: Gilbert Quintana

We would appreciate your returning one copy to the undersigned.

Very truly yours,

TENNECO OIL COMPANY

Paul Doyle
Division Production Engineer

SMc:st

WAIVER

We hereby waive any objections to Tenneco Oil Company's application to commingle production as set forth above.

Name: _____ Title: _____

Date: _____

Tenneco Oil
Exploration and Production
A Tenneco Company

6162 South Willow Drive
P.O. Box 3249
Englewood, Colorado 80155
(303) 740-4800



Western Rocky Mountain Division

August 1, 1985

Amoco Production Company
1670 Broadway
Denver, CO 80202

Attention: R. C. Burke, Jr.

RE: Florance 19
1650' FNL, 790' FEL
Sec. 3, T30N, R9W
San Juan County, New Mexico

Gentlemen:

Tenneco has applied for administrative approval to commingle production from the Mesaverde and Dakota zones in the above referenced well. If you as an offset operator have no objection to the proposed commingling, please sign the waiver at the bottom of this page and forward to:

New Mexico Oil Conservation Commission
P. O. Box 2088
Santa Fe, New Mexico 87501
Attention: Gilbert Quintana

We would appreciate your returning one copy to the undersigned.

Very truly yours,

TENNECO OIL COMPANY

A handwritten signature in dark ink, appearing to read "P. Doyle".

Paul Doyle
Division Production Engineer

SMc:st

WAIVER

We hereby waive any objections to Tenneco Oil Company's application to commingle production as set forth above.

Name: _____ Title: _____

Date: _____

Tenneco Oil
Exploration and Production
A Tenneco Company

6162 South Willow Drive
P.O. Box 3249
Englewood, Colorado 80155
(303) 740-4800



Western Rocky Mountain Division

August 1, 1985

Union Texas Petroleum
Post Office Box 1290
Farmington, NM 87499

Attention: Ruddy Motto

RE: Florance 19
1650' FNL, 790' FEL
Sec. 3, T30N, R9W
San Juan County, New Mexico

Gentlemen:

Tenneco has applied for administrative approval to commingle production from the Mesaverde and Dakota zones in the above referenced well. If you as an offset operator have no objection to the proposed commingling, please sign the waiver at the bottom of this page and forward to:

New Mexico Oil Conservation Commission
P. O. Box 2088
Santa Fe, New Mexico 87501
Attention: Gilbert Quintana

We would appreciate your returning one copy to the undersigned.

Very truly yours,

TENNECO OIL COMPANY

A handwritten signature in dark ink, appearing to read "PA Doyle".

Paul Doyle
Division Production Engineer

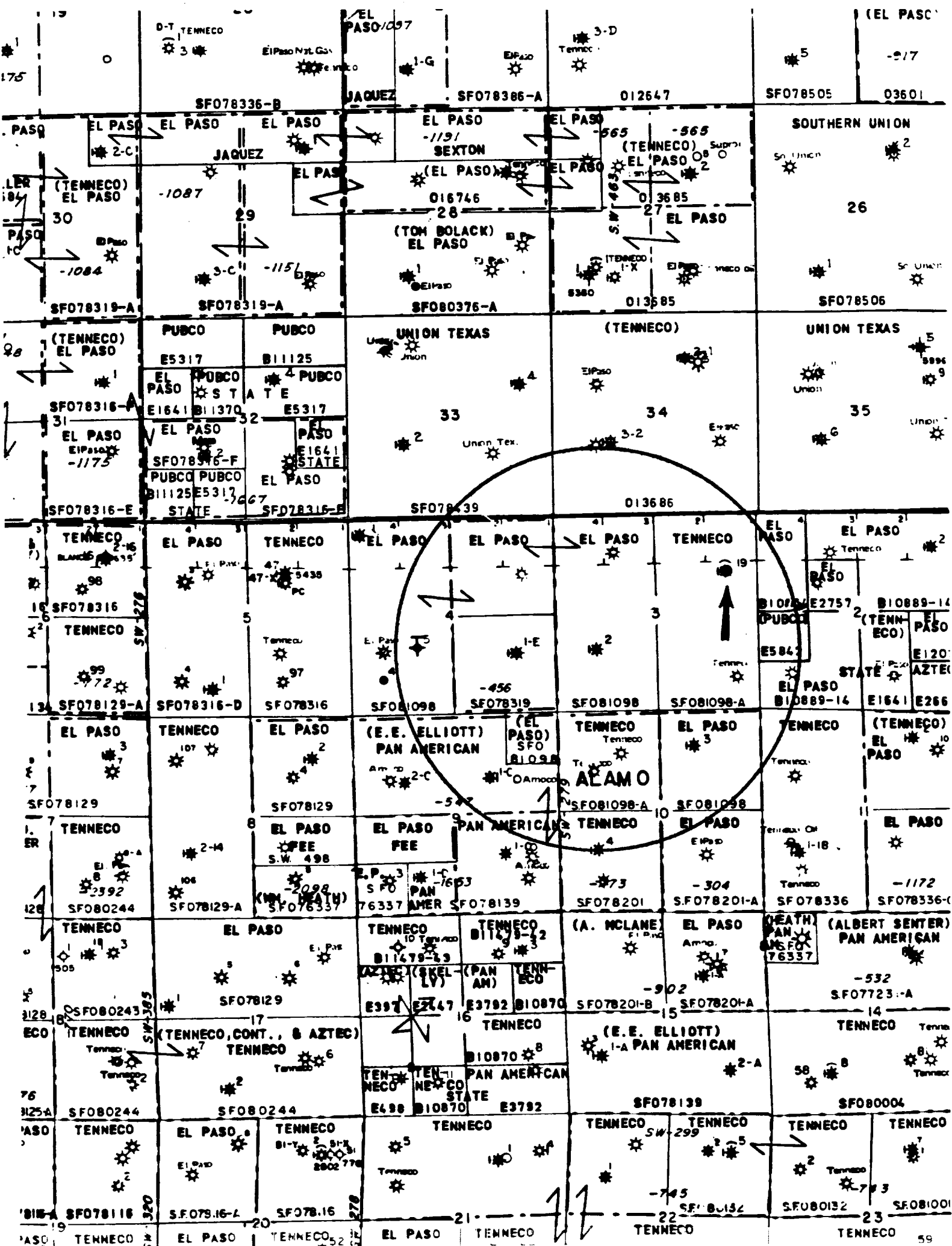
SMc:st

WAIVER

We hereby waive any objections to Tenneco Oil Company's application to commingle production as set forth above.

Name: _____ Title: _____

Date: _____



Tenneco Oil
Exploration and Production
A Tenneco Company

6162 South Willow Drive
P.O. Box 3249
Englewood, Colorado 80155
(303) 740-4800



Western Rocky Mountain Division

The Florance 19 was completed as a Mesaverde-Dakota dual in November of 1962 with 4-1/2" casing and one string of 2-3/8" tubing. The Dakota produces up the tubing and the Mesaverde flows up the casing-tubing annulus. Because of the large flow area in the annulus, the Mesaverde is experiencing liquid loading problems which are restricting the production from that zone.

Enclosed are decline curves from both the Mesaverde and Dakota zones.

The bottom-hole pressure of the Dakota was measured with a pressure bomb and found to be 872 PSIG at 7300' after 8 days of shut in. This Dakota pressure corrected to a datum of 5000' was 834 PSIG. A pressure bomb could not be run for the Mesaverde since this zone produces up the annulus.

A dead weight surface pressure of 387 PSIG was recorded for the Mesaverde after 8 days of shut in. A fluid level could not be established. The bottom-hole pressure for the Mesaverde was then calculated to be 439 PSIG at a datum of 5000'. The requirement that the lower pressured zone have a pressure that is greater than 50% of the pressure of the higher pressured zone corrected to a common datum is, therefore, satisfied.

Compatibility tests were conducted using Dakota water from the Florance 19 and Mesaverde water from an offset the Florance 19A. The testing indicates that no scale or precipitate problems should result from the commingling of these two zones. In addition, the salinities of the two zones are similar enough that no formation damage should occur in either zone.

The intent of commingling these two zones is to increase the total production from the well. This will be accomplished by increasing the flow velocity by flowing both zones up the tubing. The cross-sectional area of the tubing is 3.13 square inches, as opposed to 11.27 square inches for the tubing and annulus. Even if no production increase were realized, a 3.6 fold increase in average flow velocity would result from this commingling. This velocity increase will enable the well to unload produced fluids and will result in increased gas production from each zone. This greater production rate will increase the velocity in the tubing, yielding even more liquid lifting capacity.

Based upon the decline curves and reserve estimates for these zones, I recommend that the production be allocated on a strict percentage basis with 88% assigned to the Mesaverde and 12% assigned to the Dakota.

If you need any additional information, feel free to call me at (303) 740-4836.


Frank G. Weiss
Senior Production Engineer - WRMD

MESAVERDE

FLORANCE 19 MV/DK
MESAVERDE DAKOTA COMMINGLING
2-3/8X4-1/2 ANNULUS

DATE: 7/10/85
FILE: FILE102
PROJ: O

G A S W E L L P R E S S U R E S

MEASURED DEPTH, FEET	5000.	FLOW STREAM ID, INCHES	2.375
TRUE VERTICAL DEPTH, FEET	5000.	FLOW STREAM OD, INCHES	6.456
GAS GRAVITY	0.675	CRITICAL TEMPERATURE	382.
BOTTOM HOLE TEMPERATURE	150.	CRITICAL PRESSURE	667.
NITROGEN, MOL %	0.	CONDENSATE GRAVITY, DEG API	50.0
CARBON DIOXIDE, MOL %	0.	WATER GRAVITY	1.047
HYDROGEN SULFIDE, MOL %	0.	PIPE ROUGHNESS, INCHES	0.00060

GAS RATE M/D	WH TEMP DEG F	WELLHEAD PSIG	BOTTOMHOLE PSIG	P/Z PSIG	CONDENSATE STB/MMCF	WATER BW/MMCF
0.	60.	387.	439 AT 5000 FEET	(MEAS)	FLUID LEVEL	
			439 AT 5000 FEET	(MEAS)	(WTR)	

0350

B & R SERVICE, INC.

P. O. Box 1048
Farmington, New Mexico 87401
(505) 325-2393

Company TENNECO OIL COMPANY Lease FLORANCE Well 19
County SAN JUAN State NEW MEXICO Date 5-15-85
Shut-In _____ Zero Point G.L. Tbg. Pressure 750
Casing Pressure PACKER Tbg. Depth _____ Casing Perf. _____
Max. Temp. _____ Fluid Level _____

<u>DEPTH</u>	<u>PSIG</u>	<u>GRADIENT</u>
0	750	----
1000	768	.018
2000	787	.019
3000	804	.017
4000	819	.015
5000	834	.015
6000	851	.017
7000	867	.016
7200	870	.015
7300	872	.020

MESAVERDE

8 DAY SHUT IN PRESSURE TEST

DEAD WEIGHT SURFACE PRESSURE TEST - 387 PSIG

SOUTHERN UNION GATHERING COMPANY
REPORT OF BTU TEST RESULTS

TO: TENNECO OIL CO (846)

REF: FLORANCE 19
4069
NORTHWEST NEW MEXICO (70)

DATE OF THIS TEST: 6/28/83
DATE OF LAST TEST: 3/10/82
TEST FREQUENCY: 12

RESULTS: SPECIFIC GRAVITY: 0.6749
BTU/CF @ 14.73/60F/DRY: 1171.4

	MOL %	G. P. M.
CARBON DIOXIDE	1.114	0.0000
NITROGEN	0.179	0.0000
METHANE	86.130	0.0000
ETHANE	7.240	1.9370
PROPANE	2.937	0.8080
ISOBUTANE	0.518	0.1690
N-BUTANE	0.779	0.2450
ISOPENTANE	0.278	0.1010
N-PENTANE	0.202	0.0730
HEXANE +	0.639	0.2810
	-----	-----
TOTAL	100.016	3.6140

SMITH ENERGY SERVICES
Division of Smith International, Inc.

2198 East Bloomfield Highway
Farmington, New Mexico 87401
Phone (505) 327-7281

June 5, 1985

Tenneco Oil Co.
Western Rocky Mtn. Div.
P.O. Box 3249
Englewood, Co. 80155
ATTN: Frank Weiss

Dear Mr. Weiss:

Water analysis and compatibility studies were conducted using the following formation water samples:

- | | |
|---|----------------------------|
| 1. Dawson A#1 | Mesa Verde formation water |
| Dawson A#1 | Dakota formation water |
| (Mesa Verde sample may show scaling tendency, but no incompatibility was seen between the two samples.) | |
| 2. <u>Florance #19A</u> | Mesa Verde formation water |
| <u>Florance #19</u> | Dakota formation water |
| 3. Riddle A #1 | Mesa Verde formation water |
| Riddle A #1 | Dakota formation water |
| 4. Moore #1A | Mesa Verde formation water |
| Moore #6E | Dakota formation water |
| 5. State Com #1A | Mesa Verde formation water |
| State Com #1 | Dakota formation water |
| 6. Florance #31 | Mesa Verde formation water |
| Florance #31 | Dakota formation water |
| 7. Florance #7A | Mesa Verde formation water |
| Florance #6 | Dakota formation water |
| 8. Florance #36 | Mesa Verde formation water |
| Florance #36 | Dakota formation water |


A small amount of reddish orange precipitate formed but this is to be expected when oxygen is admitted to a water sample containing even a trace of iron.

Tenneco, water analysis con't June 5, 1985

This precipitate should pose no problems in a closed system. No solid precipitates of any other types were noted and these samples should be considered to be compatible for mixing as per the listing above.

Sincerely,

SMITH ENERGY SERVICES


Loren L. Biede
District Engineer

LLD/kr

- TENNECO WELL HISTORY -

2504

Well Name	Florance 19	Unit	H	Sec	3	T	30	R	9
TD	7615	PBTD	7564	County	San Juan	State	New Mex	MI	50.0
Drig Cost		Comp Cost		Comp Date	8-12-52	Trn On Date	9-18-52		
MV-8/13/52	IP	---	BOPD	5690	MCFD	---	BWPD	6	Hours 1050
DAK-1/63	IP	---	BOPD	2739	MCFD	---	BWPD	3	Hours 2103
MV -12/62	---			2943		---		24	761

- TUBULAR RECORD -

Top							Hole	
Size	Weight	Grade	Depth	Cement	Cement	Size	Remarks	
10-3/4	32.75	H-40	232	200	Surface	15		
7	23.20	J-55	4604	200/200	4220/1375	9-7/8	DV @ 2673	
4-1/2	10.5	J-55	7600	290		6-1/4		
2-3/8	4.7	J-55	7315	---				

Packer? Yes ☒ No ☐ Type Baker DA Depth 7315 & 7320
 Anchor? Yes ☐ No ☒ Type _____ Depth _____
 Pump Type _____

- COMPLETION & WORKOVER RECORD -

Zone #1 - Formation MV Date 8-5-52 Perfs w/JSPF _____
 Open hole 5421-4604.

Press Tstd _____ PSI, Spot Acid - Type _____ Gallons _____ BDISIP _____
 Acid: Vol. & Type _____, # balls _____, Rate _____ BPM, Press. _____ PSI
 Frac: Fluid Volume & Type _____, Sand: # _____ Mesh _____
 Frac Rate _____ BPM Frac Pressure _____ PSI ISIP _____ PSI
 Comments Shot 4690-5415 w/1590 qts nitro. Ran 2" tbq to 4810'.

Zone # 2 - Formation Dakota Date 9/62 Perfs w/JSPF _____
 Hydro Notch @ 7605'.

Press Tstd _____ PSI, Spot Acid - Type _____ Gallons _____ BDISIP _____
 Acid: Vol. & Type _____, # balls _____, Rate _____ BPM, Press. _____ PSI
 Frac: Fluid Volume & Type 15M gal wtr, Sand: BM # 20/40 Mesh _____
 Frac Rate _____ BPM Frac Pressure _____ PSI ISIP _____ PSI
 Comments Screened out. Tested zones 2 & 3 @ tst M. Abandoned w/CIBP.

Zone # 3 - Formation Dakota Date 9/62 Perfs w/JSPF _____
 Notch @ 7613-1/2

Press Tstd _____ PSI, Spot Acid - Type _____ Gallons _____ BDISIP _____
 Acid: Vol. & Type _____, # balls _____, Rate _____ BPM, Press. _____ PSI
 Frac: Fluid Volume & Type 13M gal wtr, Sand: 3 M # 20/40 Mesh _____
 Frac Rate _____ BPM Frac Pressure _____ PSI ISIP _____ PSI
 Comments Screened out. Tested Zones 2 & 3 @ TSTM. Abandoned w/CIBP.

- CASING REPAIR RECORD -

Depth of Leak _____, # of squeezes required _____, # of sx used _____
 Cathodic Protection? Yes ☐ No ☐ Date Installed _____

Comments

- 5-14-62 Sqzd openhole w/200 sxs.
- Left CIPB @ 7580'.
- 7-23-65 Set HEW Model D @ 7315'. Hydrottested tbq.
- Mesaverde produces up casing - tbq annulus.
- Dakota IBHP = 2522 PSI.
- \$160,000 to deepen & dual.

Prepared By: PAD Date: 2-1-64 Verified By: _____ Date: _____
 P. A. Doyle

- TENNECO WELL HISTORY -

-2-

Well Name Florance 19 Unit H Sec 3 T 30 R 9

- COMPLETION & WORKOVER RECORD -

Zone #4 - Formation Dakota Date 9/62 Perfs w/JSPF 1 hole, 7563, 7464, 7559, 7554, 7529, 7520, 7515, 7511, 7500, 7486. 2 JSPF: 7560-555, 7531-29, 7518-13.
Press Tstd _____ PSI, Spot Acid - Type _____ Gallons _____ BDISIP _____
Acid: Vol. & Type _____, # balls _____, Rate _____ BPM, Press. _____ PSI
Frac: Fluid Volume & Type 28 M gal wtr, Sand: 22M # 40/60 Mesh
Frac Rate 22 BPM Frac Pressure 4550 PSI ISIP 3400 PSI
Comments _____

Zone # 5 - Formation Dakota Date 9/62 Perfs w/JSPF 7487-86, 7465-63, 2 SJPF
Press Tstd _____ PSI, Spot Acid - Type _____ Gallons _____ BDISIP _____
Acid: Vol. & Type _____, # balls _____, Rate _____ BPM, Press. _____ PSI
Frac: Fluid Volume & Type 27 M gal wtr, Sand: 20 M # 40/60 Mesh
Frac Rate 24 BPM Frac Pressure 4200 PSI ISIP 3000 PSI
Comments _____

Zone # 6 - Formation Dakota Date 9/62 Perfs w/JSPF 7425-41, 2 JSPF
Press Tstd _____ PSI, Spot Acid - Type _____ Gallons _____ BDISIP _____
Acid: Vol. & Type _____, # balls _____, Rate _____ BPM, Press. _____ PSI
Frac: Fluid Volume & Type 52 M gal wtr, Sand: 30 M # 20/40 Mesh
Frac Rate 22 BPM Frac Pressure 4100 PSI ISIP 2700 PSI
Comments _____

Zone #7 - Formation Dakota Date 9/62 Perfs w/JSPF 2 JSPF; 7362-60, 7354-48, 7340-38.
Press Tstd _____ PSI, Spot Acid - Type _____ Gallons _____ BDISIP _____
Acid: Vol. & Type _____, # balls _____, Rate _____ BPM, Press. _____ PSI
Frac: Fluid Volume & Type 26 M gal wtr, Sand: 15M # 20/40 Mesh
Frac Rate 27 BPM Frac Pressure 4000 PSI ISIP 2400 PSI
Comments _____

Zone # 8 - Formation MV Date 11/62 Perfs w/JSPF 1 JSPF; 5326, 5307, 5288, 5272, 5242, 5238, 5234, 5229, 5228, 5224, 5219, 5190, 5183, 5158, 5112.
Press Tstd 4000 PSI, Spot Acid - Type _____ Gallons _____ BDISIP -0-
Acid: Vol. & Type _____, # balls _____, Rate _____ BPM, Press. _____ PSI
Frac: Fluid Volume & Type 83 M gal wtr, Sand: 75 M # 20/40 Mesh
Frac Rate 37 BPM Frac Pressure 3500 PSI ISIP -0- PSI
Comments _____

Zone # 9- Formation MV Date 11/62 Perfs w/JSPF 1 JSPF: 5096, 5084, 5079, 5049, 5042, 5034, 5028, 5009, 4998, 4950, 4941, 4900, 4930, 4885, 4878.
Press Tstd 3850 PSI, Spot Acid - Type _____ Gallons _____ BDISIP _____
Acid: Vol. & Type _____, # balls _____, Rate _____ BPM, Press. _____ PSI
Frac: Fluid Volume & Type 46 M gal wtr, Sand: 45M # 20/40 Mesh
Frac Rate 34 BPM Frac Pressure 3600 PSI ISIP -0- PSI
Comments _____

Zone #10 - Formation MV Date 11/62 Perfs w/JSPF 1 JSPF, 4861, 4849, 4820, 4829, 4807, 4801, 4793, 4786, 4749, 4723, 4712, 4778, 4738, 4707, 4700, 4755.
Press Tstd 3700 PSI, Spot Acid - Type _____ Gallons _____ BDISIP _____
Acid: Vol. & Type _____, # balls _____, Rate _____ BPM, Press. _____ PSI
Frac: Fluid Volume & Type 58 M gal wtr, Sand: 60M # 20/40 Mesh
Frac Rate 37 BPM Frac Pressure 3600 PSI ISIP -0- PSI
Comments _____

Prepared By: _____ Date: _____ Verified By: _____ Date: _____

**NEW MEXICO OIL CONSERVATION COMMISSION
GAS-OIL RATIO TESTS**

C-116
Revised 1-1-65

Operator Tenneco Oil Company		Pool Mesaverde		County San Juan	
Address P.O. Box 3249, Englewood, CO 80155				TYPE OF TEST - (X)	Scheduled <input checked="" type="checkbox"/> Special <input type="checkbox"/>
LEASE NAME Florance	WELL NO. 19	LOCATION U S T R H 3 30 9			DATE OF TEST 5/28/85
		CHOKE SIZE N/A	TBG. PRESS. 400	DAILY ALLOW-ABLE 	LENGTH OF TEST HOURS 24
		Completion <input type="checkbox"/>		Special <input type="checkbox"/>	
		PROD. DURING TEST		GAS - OIL RATIO	
		WATER BBL.S.	GRAV. OIL BBL.S.	OIL BBL.S.	GAS M.C.F.
		0	42.8	0	14.23
					0

No well will be assigned an allowable greater than the amount of oil produced on the official test.

During gas-oil ratio test, each well shall be produced at a rate not exceeding the top unit allowable for the pool in which well is located by more than 25 percent. Operator is encouraged to take advantage of this 25 percent tolerance in order that well can be assigned increased allowable when authorized by the Commission.

Gas volumes must be reported in MCF measured at a pressure base of 15.025 psia and a temperature of 60° F. Specific gravity base will be 0.60.

Report casing pressure in lieu of tubing pressure for any well producing through casing.

Mail original and one copy of this report to the district office of the New Mexico Oil Conservation Commission in accordance with Rule 301 and appropriate pool rules.

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

Paula Schubert
(Signature)
Administrative Supervisor
(Title)

(Date)

**NEW MEXICO OIL CONSERVATION COMMISSION
GAS-OIL RATIO TESTS**

C-116
Revised 1-1-65

Operator Tenneco Oil Company		Pool Dakota		County San Juan									
Address P.O. Box 3249, Englewood, CO 80155				TYPE OF TEST - (X) <input checked="" type="checkbox"/>	Scheduled <input checked="" type="checkbox"/>								
LEASE NAME Floreance	WELL NO. 19	LOCATION			DATE OF TEST 5/28/85	CHOKE SIZE N/A	TBG. PRESS. 730	DAILY ALLOW-ABLE 24	LENGTH OF TEST hours 24	Completion <input type="checkbox"/>			Special <input type="checkbox"/>
		U	S	T						R	WATER BBL.S.	PROD. DURING TEST GRAV. OIL BBL.S.	

No well will be assigned an allowable greater than the amount of oil produced on the official test.

During gas-oil ratio test, each well shall be produced at a rate not exceeding the top unit allowable for the pool in which well is located by more than 25 percent. Operator is encouraged to take advantage of this 25 percent tolerance in order that well can be assigned increased allowables when authorized by the Commission.

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Mail original and one copy of this report to the district office of the New Mexico Oil Conservation Commission in accordance with Rule 301 and appropriate pool rules.

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

Deanna M. McGee
(Signature)
Administrative Supervisor
(Title)

(Date)

FLORANCE 19

DETERMINATION OF ALLOCATION PERCENTAGES

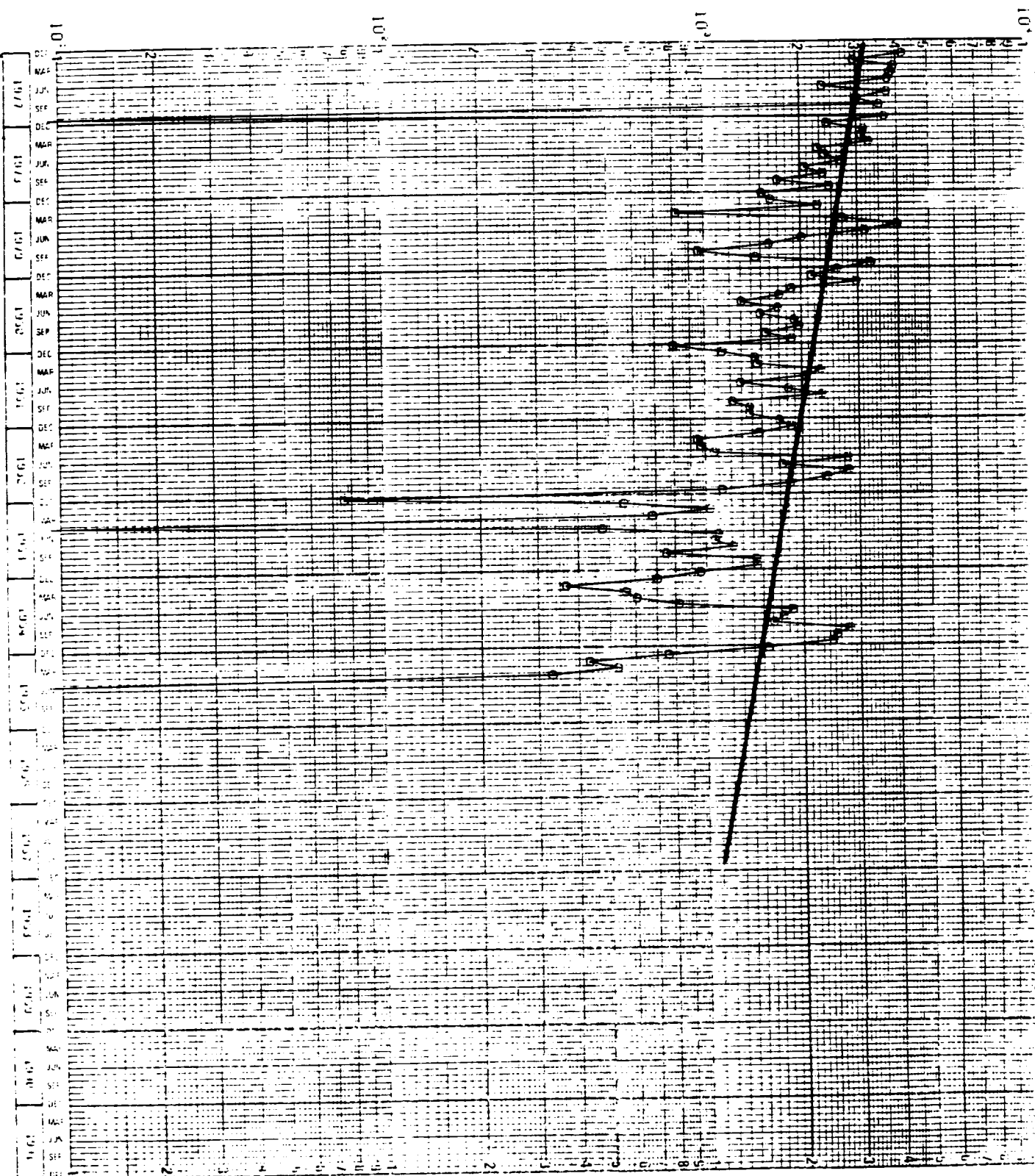
The decline rates and reserve estimate for the Mesaverde and Dakota are indicated below:

	<u>DECLINE PERCENTAGE</u>	<u>REMAINING RESERVES</u>
MESAVERDE	6%	1.2 BCF
DAKOTA	9%	166.0 MMCF

0353

FLORANCE 19
030N009W03H

DAKQ14

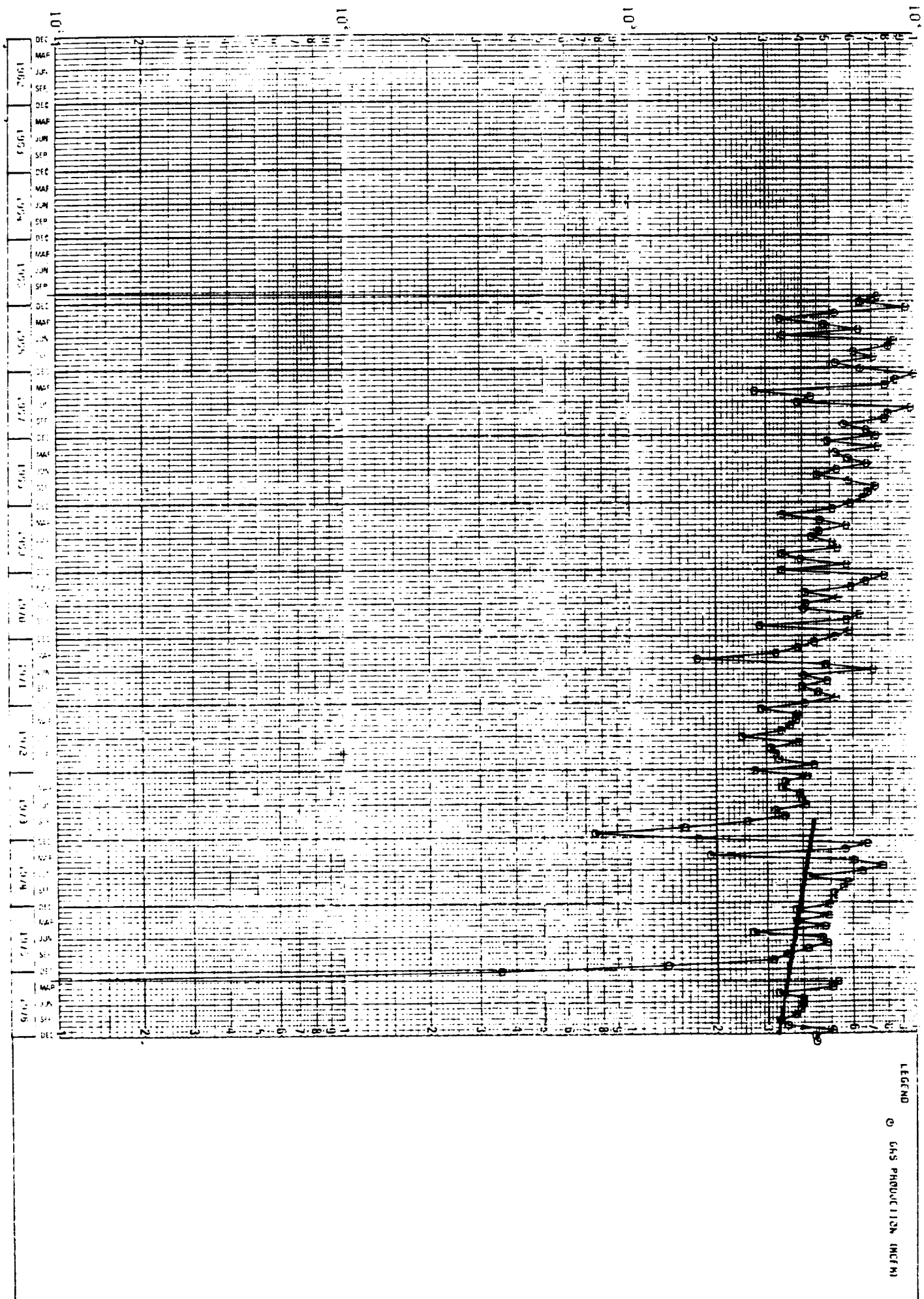


LEGEND
O GAS PRODUCTION (MCFM)

FLORANCE 19

030N009W03H

08K014

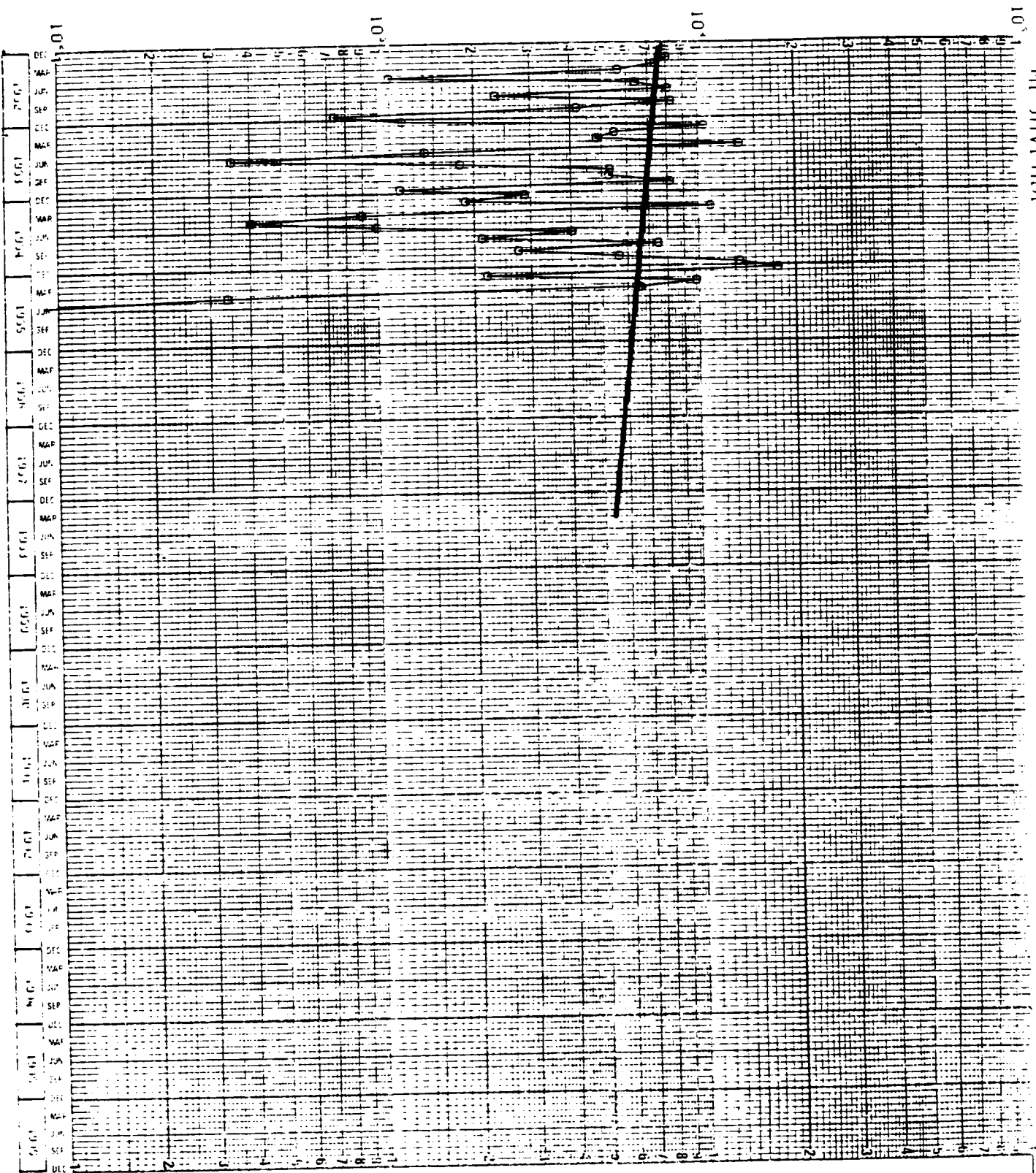


LEGEND
○ OIL PRODUCTION (MCFM)

FLORHIDE 19

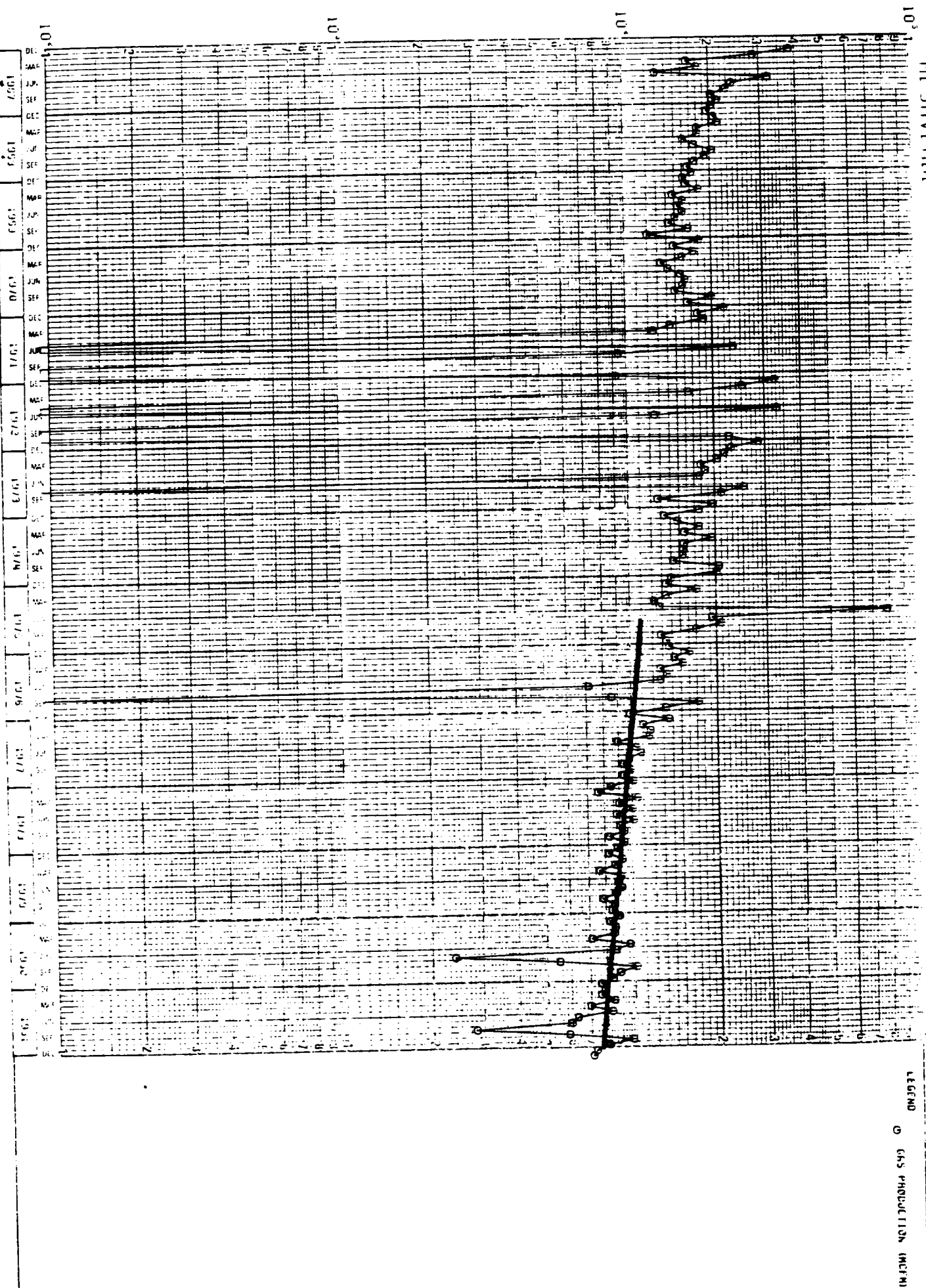
030N009W03H

ME-SAVE-RDE



LEGEND
 O GAS PRODUCTION (MCF/D)

FLORANCE 19
030N009W03H
MESHAVERD



LEGEND
O GAS PRODUCTION (MCFM)