



STATE OF NEW MEXICO

ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION

GARREY CARRUTHERS  
GOVERNOR

POST OFFICE BOX 2088  
STATE LAND OFFICE BUILDING  
SANTA FE, NEW MEXICO 87504  
(505) 827-5800

November 13, 1987

Tenneco Exploration and Production  
P.O. Box 3249  
Englewood, CO 80155

Attention: Mr. Timothy Foster

Administrative Order TX-184

Dear Mr. Foster:

Reference is made to your request for an exception to the tubing setting requirements as contained in Division Rule 107(d) (3) for the below-named well.

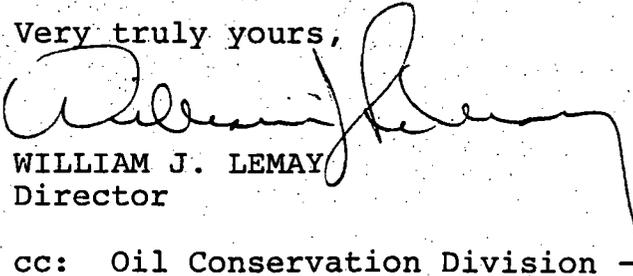
Pursuant to the authority granted me by Rule 107(d) (4), you are hereby authorized to make a tubingless completion in the following well:

Well Name and Number: Florance Well No. 16-A

Location: Unit P, Section 6, Township 30 North,  
Range 9 West, NMPM, San Juan County, New Mexico.

The Division reserves the right to rescind this authority in the event that waste appears to be resulting therefrom.

Very truly yours,

  
WILLIAM J. LEMAY  
Director

cc: Oil Conservation Division - Aztec

WJL/REJ/ag

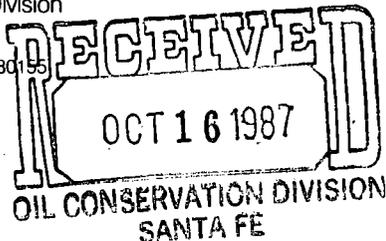
7V2V2005152005

# Tenneco Oil Exploration and Production

A Tenneco Company

Rocky Mountain Division

P.O. Box 3249  
Englewood, Colorado 80155  
(303) 740-4800



Delivery Address:  
6162 South Willow Drive  
Englewood, Colorado 80111

October 9, 1987

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

Attn: William J. Lemay, Director

Re: Florance #16-A (MV)  
Sec. 6, T30N, R9W  
San Juan County, New Mexico

Dear Sir:

Tenneco Oil Company hereby requests that an exception to Division Rule #107 (d)(2), requiring tubing in a producing gas well, be granted for the above referenced well.

The well currently flows 1600 MCFD to 2000 MCFD on compression with flowing tubing pressures of 195 psig to 165 psig. Attached are the tubing gradient curves showing that at 1869 MCFD the flowing bottom hole pressure of 410 psig can be reduced to 183 psig with 4 1/2" casing. The attached system analysis indicates that production can be increased to over 3600 MCFD by the reduction in flowing bottom hole pressure.

Attached is a copy of the Sundry Notice currently filed with the Bureau of Land Management detailing the workover procedure. Pressure will be monitored in the 7" x 4 1/2" annulus to insure that the integrity of the 4 1/2" casing is maintained.

If you should have any questions, please call Bob Sagle at (303) 740-2555.

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OIL CON. DIV.  
DIST. 3

Sincerely,

TENNECO OIL COMPANY

A handwritten signature in black ink, appearing to read "Timothy R. Foster". The signature is written in a cursive style and is positioned above a horizontal line.

Timothy R. Foster  
Sr. Administrative Analyst

TRF/cc:2195P

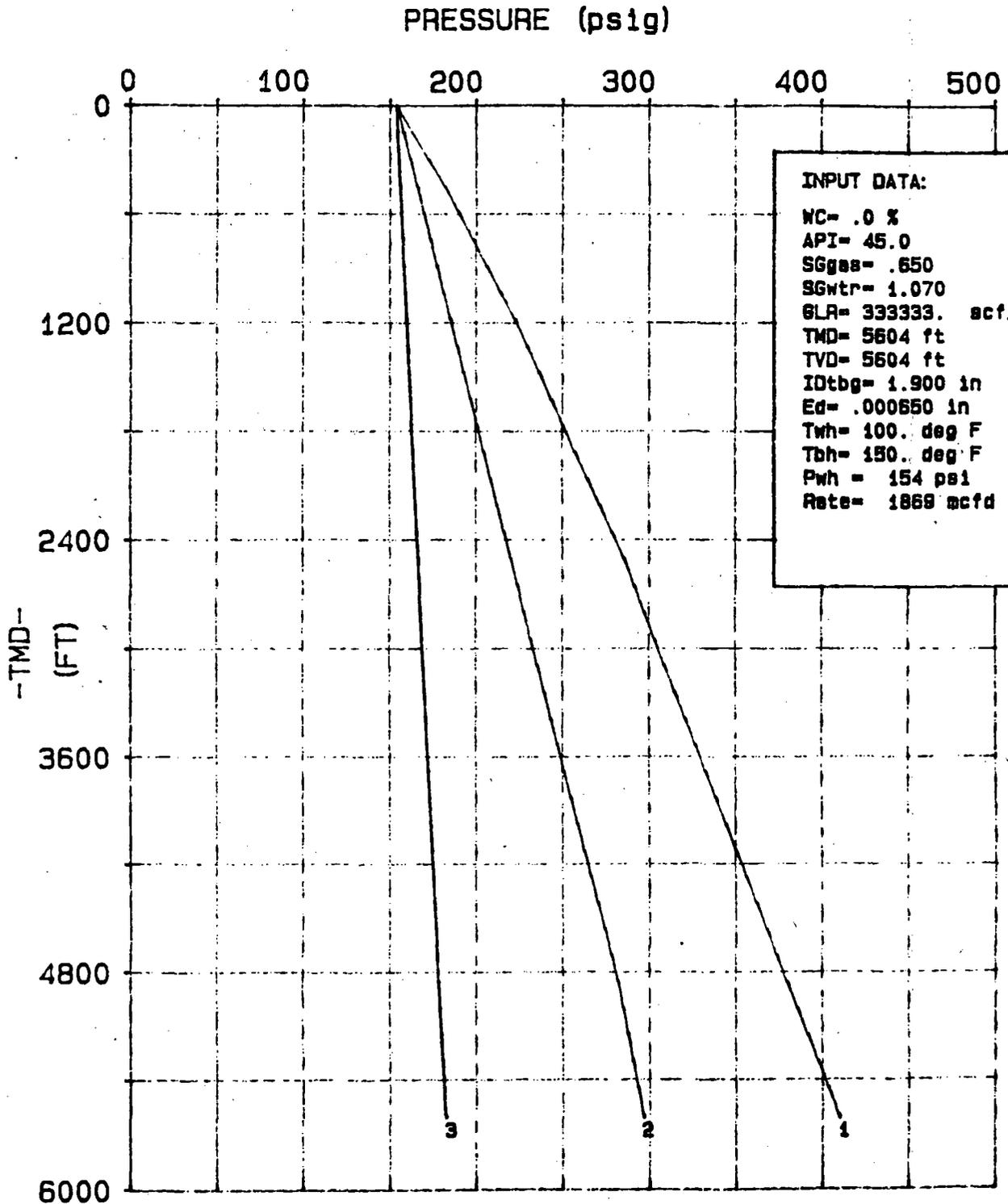
Attachment

cc: B. Sagle  
J. Fox  
Frank Chavez - NMOCD, Aztec  
Well File

TENNECO OIL COMPANY  
 Systems Analysis Program  
 Tubing Gradient Curve

Well: FLORANCE 16A MV  
 Loc: TBG GRAD. CURVES  
 Desc:

01-01-1980  
 File: FLO16A



INPUT DATA:  
 WC= .0 %  
 API= 45.0  
 SGgas= .650  
 SGwtr= 1.070  
 GLR= 333333. scf/B  
 TMD= 5604 ft  
 TVD= 5604 ft  
 IDtbg= 1.900 in  
 Ed= .000650 in  
 Twh= 100. deg F  
 Tbh= 150. deg F  
 Pwh = 154 psi  
 Rate= 1868 mcf/d

— 1 FundFlow-A  
 — 2 FundFlow-A Tbg dia = 2.300 in  
 — 3 FundFlow-A Tbg dia = 3.900 in

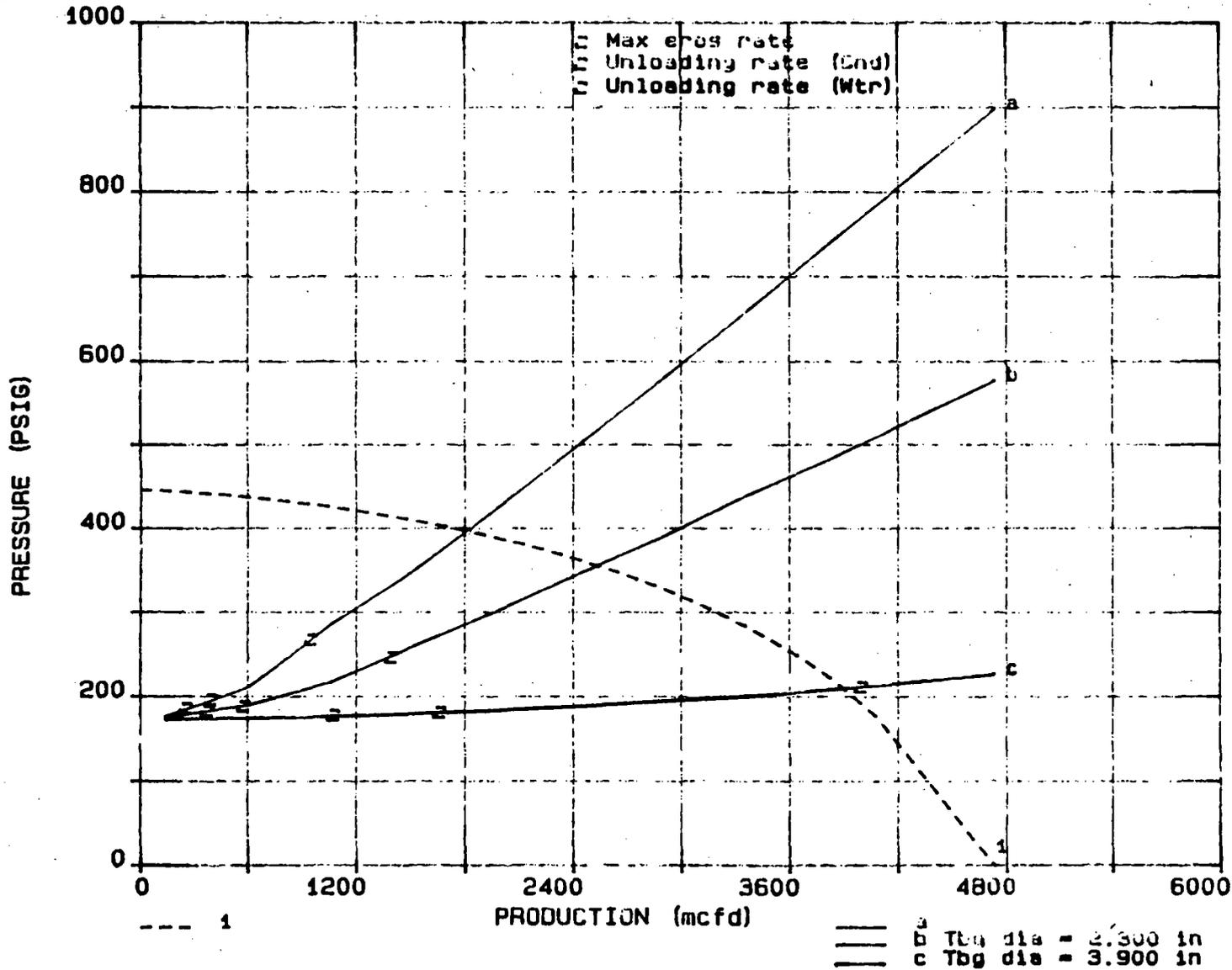
Pwf= 410.2 psig  
 Pwf= 296.6 psig  
 Pwf= 183.3 psig

measured 408 psig

TENNECO OIL COMPANY  
Systems Analysis Program

Well: FLORANCE 16A MV  
Loc: IPR CURVE  
Desc:

01-01-1980  
File: FLO16A



INPUT DATA

WC= .0 %  
API= 45.0  
SGgas= .650  
SGwtr= 1.070  
GLR= 333333. scf/B  
TMD= 5604 ft  
TYD= 5604 ft  
IDtbg= 1.900 in  
Ed= .000650 in  
Twh= 100. deg F  
Tbh= 165. deg F  
Pr= 447. psig  
Tres= 165. deg F  
Re= 1000. ft  
Rw= 10.00 ft  
H= 180 ft  
Hp= 67 ft  
Pors= 12.0 %  
Kfm= 200.000 md  
Skin= -1.0  
SPF= 1.0  
Dperf= .380 in  
Lperf= 8.00 in  
KcKf= .20

Inflow Curve	Qmax
1 Jones	4732

Outflow Curve	Pwh
a FundFlow-A	154
b FundFlow-A	154
c FundFlow-A	154

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPPLICATE\*  
(Other instructions on reverse side)

Form approved.  
Budget Bureau No. 1004-0135  
Expires August 31, 1985

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER		5. LEASE DESIGNATION AND SERIAL NO. I-Sec-772	
2. NAME OF OPERATOR Tenneco Oil Company		6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
3. ADDRESS OF OPERATOR P.O. Box 3249 Englewood, CO 80155		7. UNIT AGREEMENT NAME	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface  825' FSL and 1030' FEL		8. FARM OR LEASE NAME Florance	
14. PERMIT NO. 30-045-21790		9. WELL NO. 16-A	
15. ELEVATIONS (Show whether DF, ST, OR, etc.) 6508' (GL)		10. FIELD AND POOL, OR WILDCAT Blanco Mesaverde	
		11. SEC., T., R., N., OR BLK. AND SURVEY OR AREA Sec 6 T30N R9W	
		12. COUNTY OR PARISH San Juan	13. STATE NM

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input checked="" type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <input type="checkbox"/>	

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Tenneco Oil Company requests permission to pull the 2-3/8" tubing and produce the referenced well through 4-1/2" casing via the attached procedure.

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OIL CON. DIV.  
DIST. 3

18. I hereby certify that the foregoing is true and correct  
SIGNED Timothy A. Foster TITLE Sr. Administrative Analyst DATE 10/9/87  
(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

\*See Instructions on Reverse Side

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LEASE Florance  
WELL NO. 16A

CASING:

9 5/8 "OD, 36 LB, K-55 CSG/W 200 sx SX

TOC @ surf . HOLE SIZE \_\_\_\_\_ DT: 7/7/75

REMARKS \_\_\_\_\_

7 "OD, 23 LB, K-55 CSG/W 60/450 SX

TOC @ 2000 . HOLE SIZE 8 3/4 DT: 7/13/75

REMARKS DV @ 3107

4 1/2 "OD, 11.6 LB, K-55 CSG.W/ 300 SX

TOC @ TOL . HOLE SIZE 6 1/4 DATE \_\_\_\_\_

REMARKS TOL @ 3232'

TUBING:

2 3/8 "OD, 4.7 LB, J-55 GRADE, 8 RD, EUE CPLG

LANDED @ 5604 . SN, PACKER, ETC. \_\_\_\_\_

\_\_\_\_\_ "OD, \_\_\_\_\_ LB, \_\_\_\_\_ GRADE, \_\_\_\_\_ RD, \_\_\_\_\_ CPLG

LANDED @ \_\_\_\_\_ . SN, PACKER, ETC. \_\_\_\_\_

PUMP \_\_\_\_\_ RODS \_\_\_\_\_ ANCHOR \_\_\_\_\_

DETAILED PROCEDURE:

1. MIRUSU. Kill well w/1% KCL wtr. NDWH. NUBOP.
2. PU 2-3/8" tbg and RIH to PBDT. Call Denver prior to any N<sub>2</sub> cleanout.
3. POOH w/tbg, standing back 55 stands & laying down rest.
4. RU WL & RIH w/4-1/2" RBP. Set RBP @ ± 3350'. PT RBP to 500 psi.
5. NDBOP, and change rams for 4-1/2" csg. Install 4-1/2" tbg head w/7" cross over, automatic slips and flanged valves.
6. RIH w/4-1/2" 10.5 K-55 ST & C csg w/centralizers on bottom 3 joints. Tag TOL & pull up 1 ft. to land csg.
7. NUBOP. RIH w/ retrieving head on 2-3/8" tbg. Release RBP & POOH, laying down tbg.
8. NDBOP. NUWH. RDMSU. FWTCU.

D.V.C

3107'

3232'

3530'

4742'



Perfs



5585'

5735'

5734



STATE OF NEW MEXICO

ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION  
AZTEC DISTRICT OFFICE

GARREY CARRUTHERS  
GOVERNOR

RECEIVED  
OCT 23 1987  
OIL CONSERVATION DIVISION

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

Date: 10/20/87

Oil Conservation Division  
P.O. Box 2088  
Santa Fe, NM 87504-2088

- Re: Proposed MC \_\_\_\_\_
- Proposed DHC \_\_\_\_\_
- Proposed NSL \_\_\_\_\_
- Proposed SWD \_\_\_\_\_
- Proposed WFX \_\_\_\_\_
- Proposed PMX \_\_\_\_\_

*TX*

Gentlemen:

I have examined the application dated 10/15/87  
 for the Jannaw Florance #16A  
 Operator Lease & Well No.

P-6-30A-9W and my recommendations are as follows:  
Unit, S-T-R

Approve  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Yours truly,

*[Signature]*