

P-101

FIELDS LS 2A WORKOVER

1985

CHRONOLOGICAL EVENTS

- May 30 Workover procedure to add Cliffhouse and Menefee pay written and approved. Nodal Analysis indicates 2-3/8" tbg restricting flow.
- Aug 27 Sundry Notice sent in for approval. Approved 8/29. (for downstream danger)
- Sept 5 Leasesale properties takeover. Tenneco assumed control of Fields LS 2A.
1.6 MMCFD 20 BOPD.
- Sept 9-10 Bottom hole pressure bomb run and well shut in for buildup. Flowing bottom hole pressure indicates 2-3/8" tubing is choking flow.
- Sept 17-19 Pulled and laid down 2-3/8" tubing. Ran 1-1/4" heat string to 2500'. Manifolded flow lines to both wing valves on tubing spool. Installed 2 HLP 12A separators on location with 2-300 BBL tanks.
5.2 MMCFD 700 BOPD
(oil not condensate)
- Sept 24 Notified EPNG and NMOCD of our intent to retest well.
- Oct 2-3 Pressure differentials between the tubing (460 psi) and casing (300 psig), and the wellhead and separators indicated more flow restrictions. The 1-1/4" heat string was pulled and laid down. The 2-1/16" wellhead was replaced with a 4-1/16" wellhead, and 2 more HLP 12A separators and 300 BBL tanks were installed.
9.5 MMCFD 1100 BOPD
- Oct 14-22 Flow period for deliverability test.
8.65 MMCFD 700 BOPD
- Oct 15 Request sent to NMOCD to produce up 4-1/2" casing. Granted ?
10/23.
- Oct 23-29 SI F/BU. Replaced 4 HLP 12A separators with 2 HLP 10BWI Units. Installed 4" flowlines. Installed gas cooler and additional separator. Installed electronic monitoring system. Well on line 10/30.
9.4 MMCFD 500 BOPD

1986

- Jan 15-16 Integrated volumes and pressures for test received from EPNG. Deliverability test form completed and submitted to NMOCD in Aztec.

- Feb 3 Proration unit shut in overproduced.

1206z

BEFORE EXAMINER STOGNER

OIL CONSERVATION DIVISION

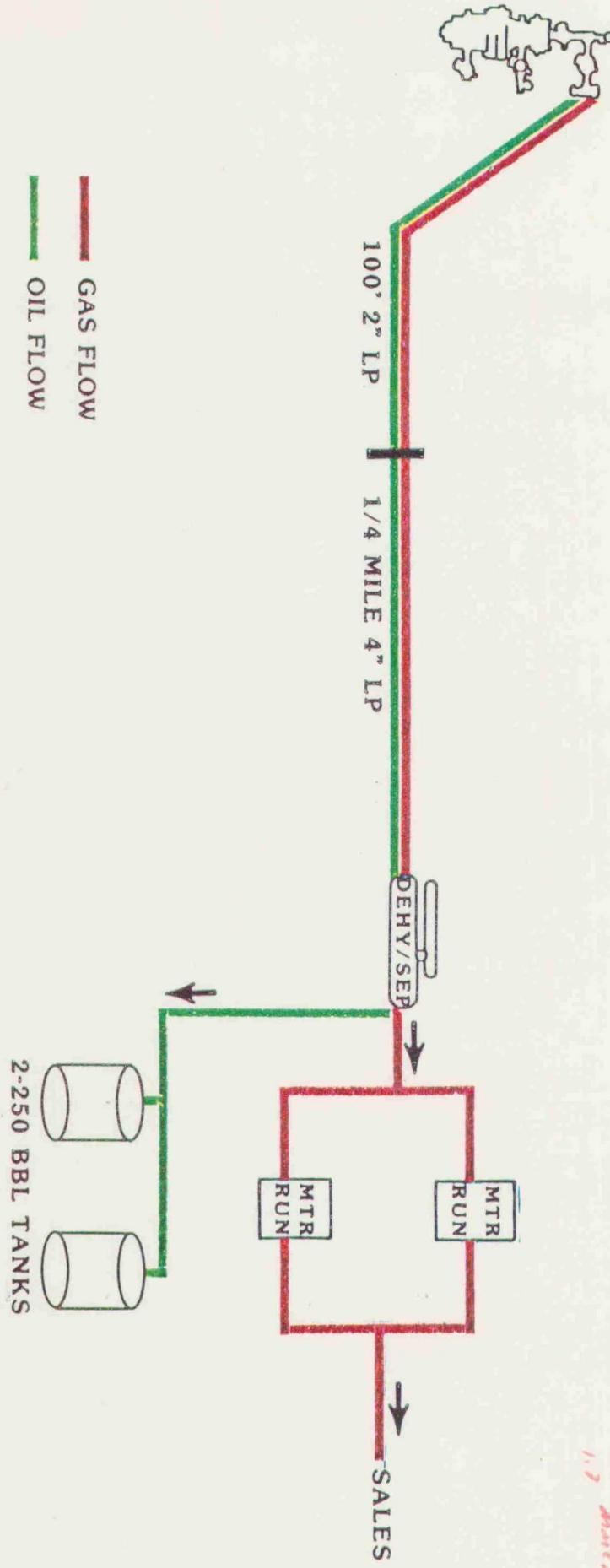
TCO EXHIBIT NO.

CASE NO. 8944

FIELDS LS 2A

SURFACE FLOW PRIOR TO TAKEOVER

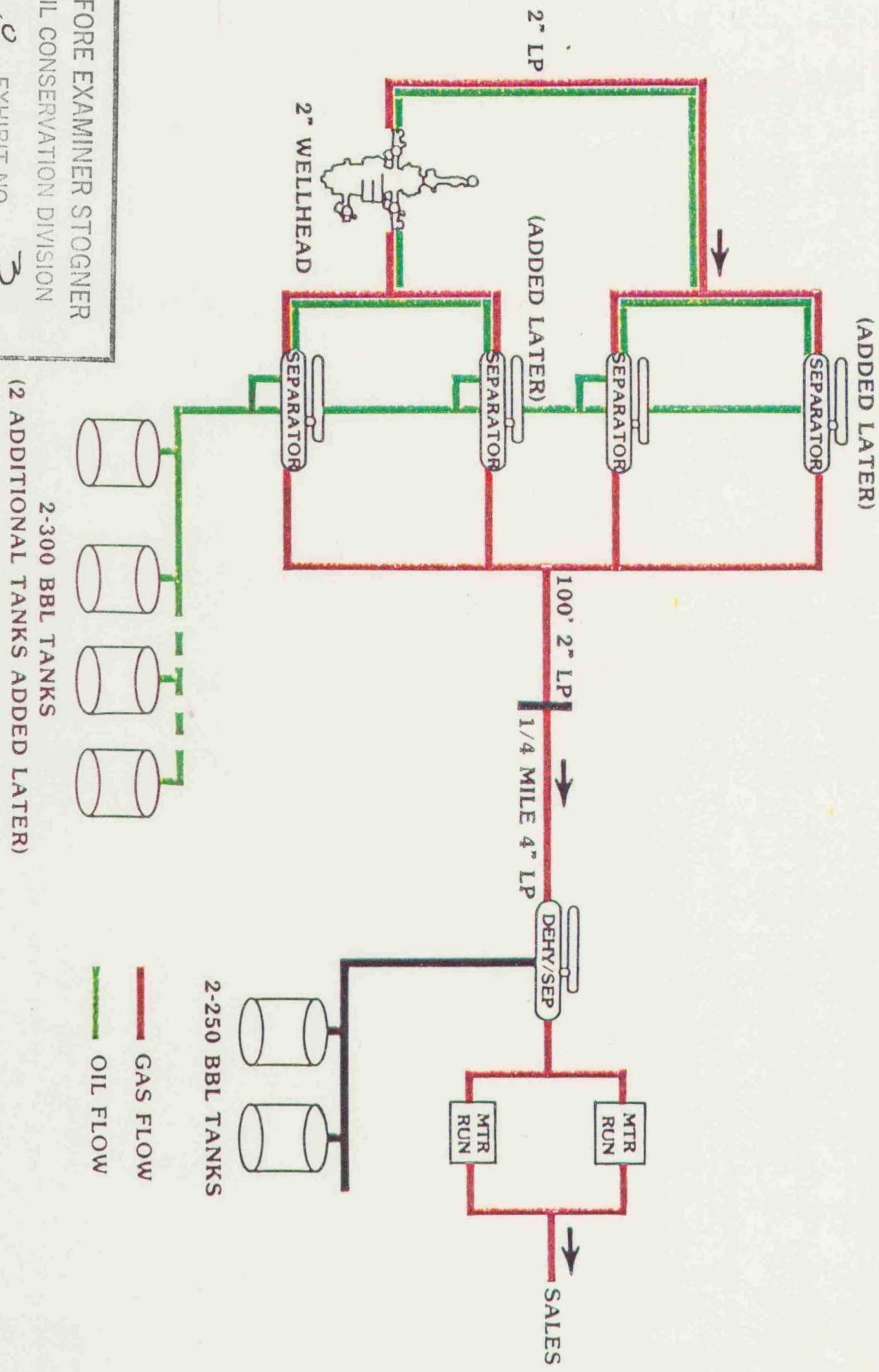
115
117
MAR/10/81



BEFORE EXAMINER STOGNER
OIL CONSERVATION DIVISION
TCO EXHIBIT NO. <u>2</u>
CASE NO. <u>8944</u>

FIELDS LS 2A

INTERMEDIATE SURFACE EQUIPMENT DIAGRAM



BEFORE EXAMINER STOGNER

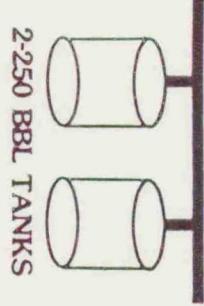
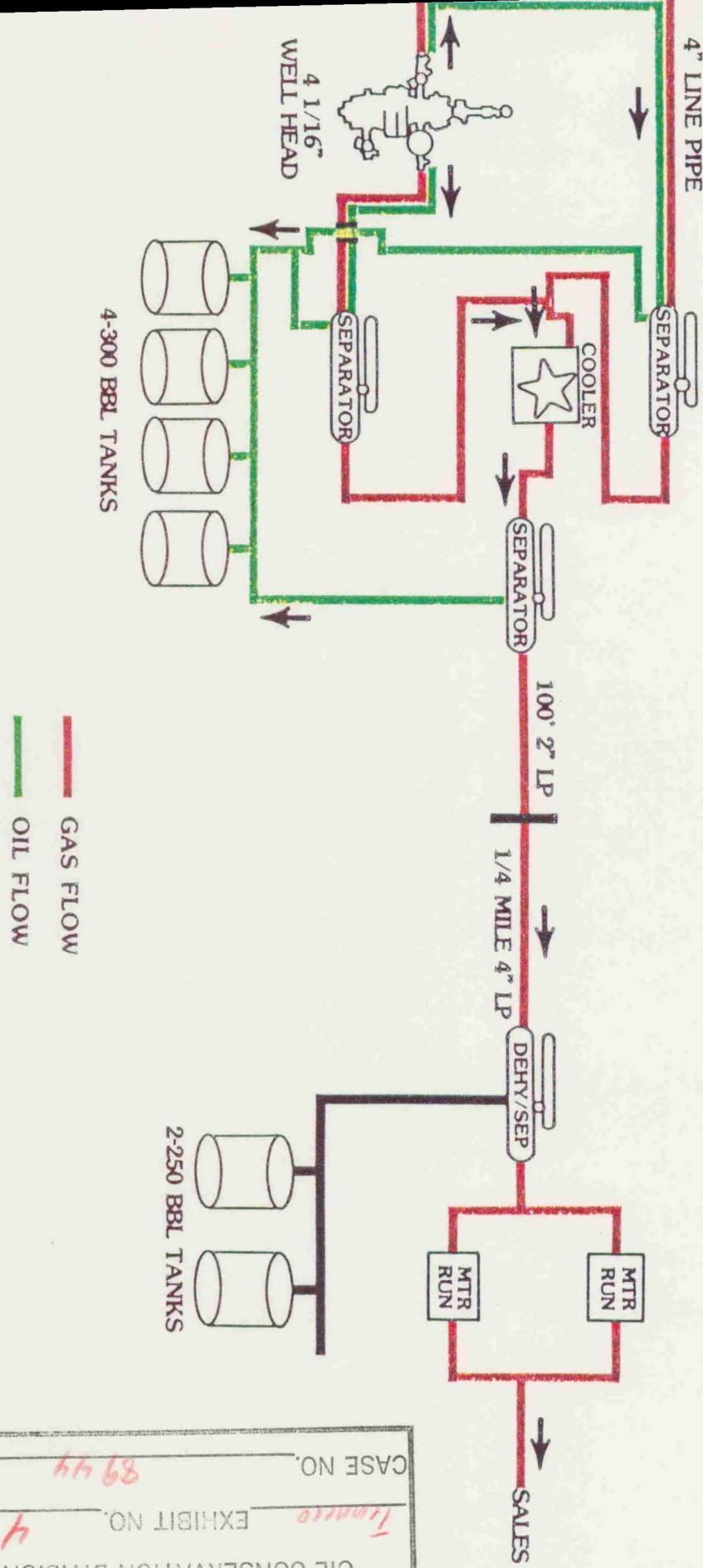
OIL CONSERVATION DIVISION

+ CO EXHIBIT NO. 3
(2 ADDITIONAL TANKS ADDED LATER)

CASE NO. 8944

FIELDS LS 2A

CURRENT SURFACE EQUIPMENT DIAGRAM



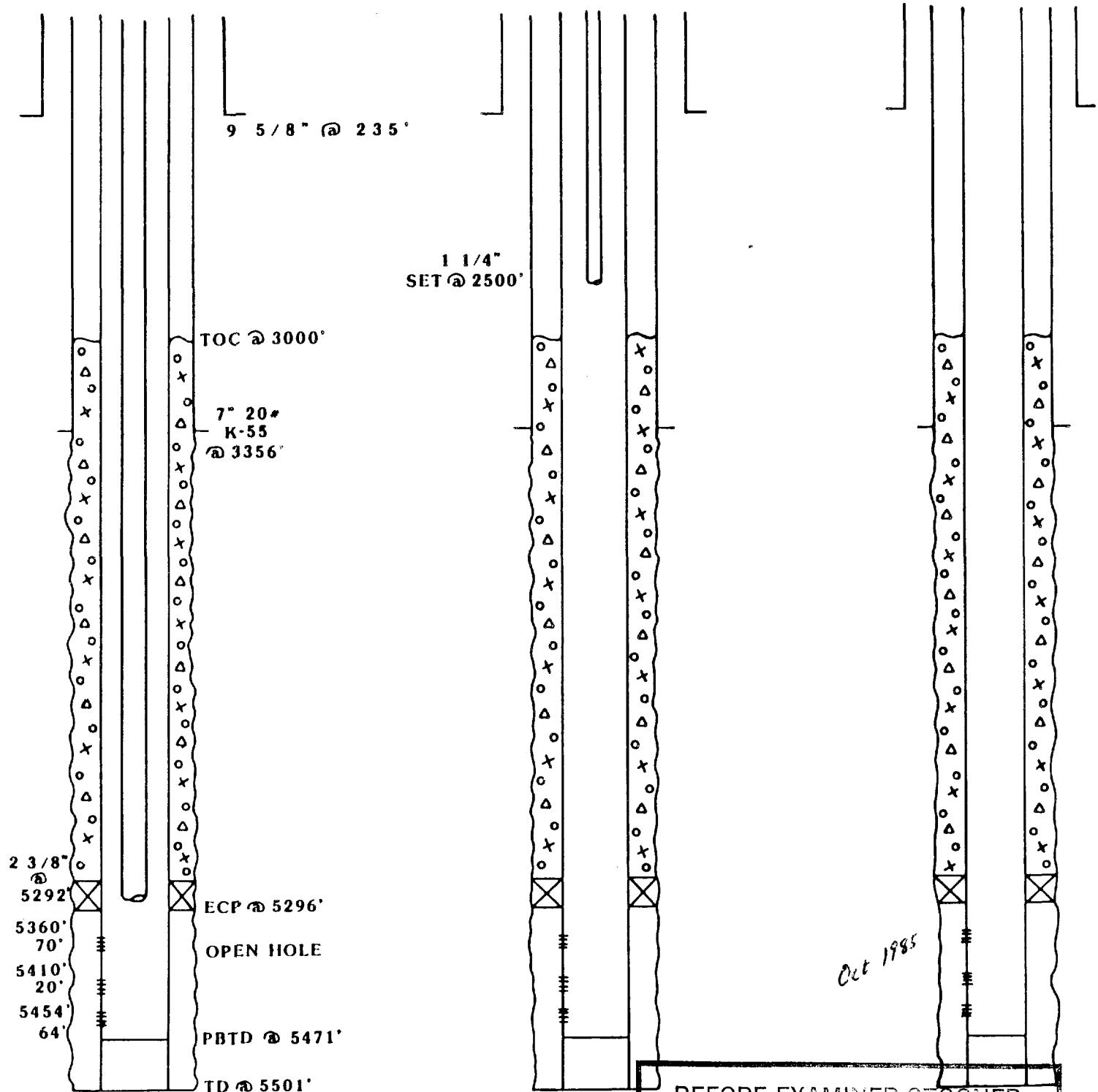
2-250 BBL TANKS

BEFORE EXAMINER STOGNER	OIL CONSERVATION DIVISION
EXHIBIT NO. <i>4</i>	EXHIBIT NO. <i>8944</i>
CASE NO. <i>8944</i>	

PRIOR TO TAKEOVER
PRODUCING UP
2 3/8" TUBING

1st WORKOVER
PRODUCING UP
4 1/2" X 1 1/4" ANNULUS

2nd WORKOVER
PRODUCING UP
4 1/2" CASING



Sept. 17-19, 1985

BEFORE EXAMINER STOGNER
OIL CONSERVATION DIVISION
TCD EXHIBIT NO. 5
CASE NO. 8944



TENNECO E & P
(COMPANY)

INTEROFFICE COMMUNICATION

TO: RMD/PRODUCTION
FOR: L. D. JONES
FROM: P. M. MUELLER
RE: FIELDS LS 2A
WORKOVER AND EQUIPMENT COSTS

DATE: 6/25/86

Rig Work: (Moved on well twice)
\$14379

100%

Surface Equipment:

Tangible:

Cooler	\$11,995
3 Separators	\$41,432
4 Tanks	\$15,367
Wellhead	\$14,477
4" Line Pipe	\$17,724
Monitors	<u>\$14,323</u>
	\$115,318

Intangible:

Roustabout	\$29,267
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Total Investment: \$158,964

P. M. Mueller
P. M. Mueller

PMM:maf:5719W

cc: J. S. Fox
P. M. Mueller
wellfile

BEFORE EXAMINER STOGNER
OIL CONSERVATION DIVISION
EXHIBIT NO. 6
CASE NO.

FIGURE 1

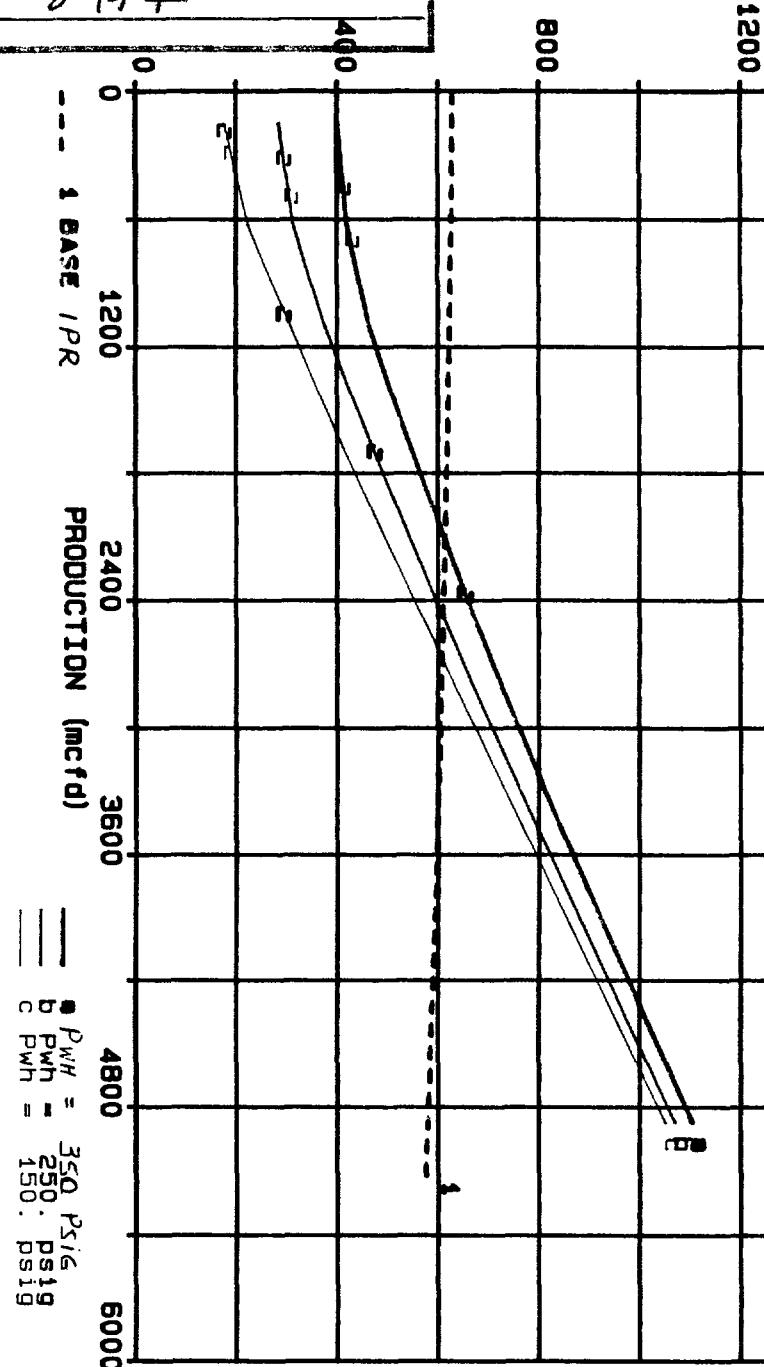
TENNECO OIL COMPANY
Systems Analysis Program

© 1988
 Well: FIELDS LS 2A
 Loc:
 Desc: EFFECT OF COMPRESSOR 2 3/8 TBG

07-07-1986
 File: FLDLS-1
 JSF

Max gas rate Unloading rate (Cnd) (Wtcr)			

PRESSURE (PSIG)



$P_{W/H} = 350$ psig
 $b_{P_{W/H}} = 250$. psig
 $c_{P_{W/H}} = 150$. psig

Inflow Curve Qmax
 1 Jones

Outflow Curve Pwh
 a FundFlow-A 350
 b FundFlow-A 250
 c FundFlow-A 150

BEFORE EXAMINER STOGNER

OIL CONSERVATION DIVISION

TENNECO EXHIBIT NO. 7

CASE NO. 8944

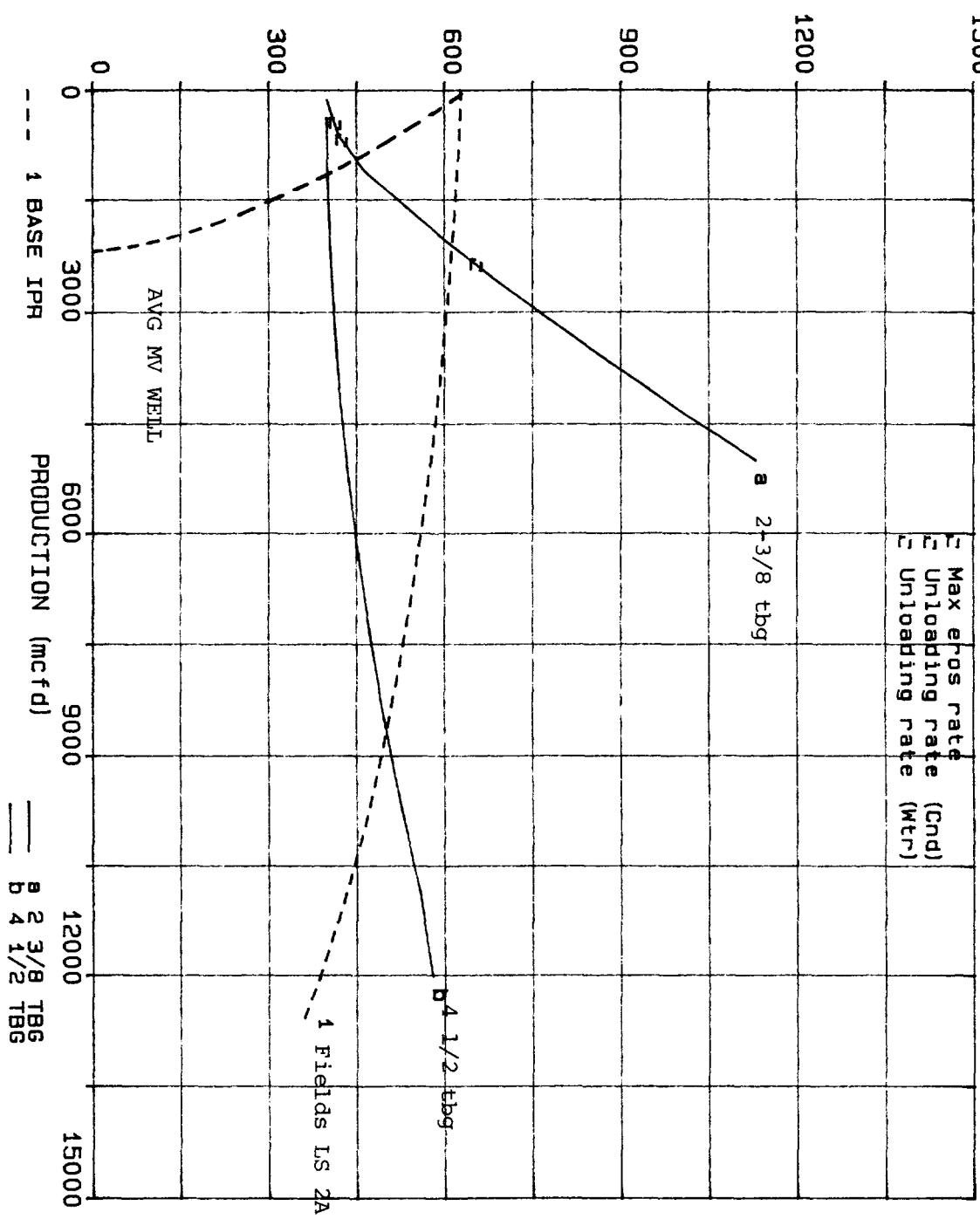
FIGURE 2

TENNECO OIL COMPANY
Systems Analysis Program

© 1982

Well: FIELDS LS 2A
 Loc: SAN JUAN BASIN
 Desc: EFFECT OF TBG SIZE

07-10-1986
 File: FLDLS
 JSF



INPUT DATA

WC= 5.0 %
 API= 45.0
 SGas= .660
 SGrwtr= 1.050
 GLR= 50000. scf/B
 TMD= 5360 ft
 TVD= 5360 ft
 IDtbg= 1.995 in
 Ed=.005000 in
 Twf= 90. deg F
 Tbh= 165. deg F
 Pr= 630. psig
 Tres= 175. deg F
 Re= 1500. ft
 Rm= 30.00 ft
 H= 25 ft
 Hp= 25 ft
 Porg= 14.0 %
 Kfm= 200.00 md
 Skinh= -1.0
 SPF= 3.0
 Operf=.380 in
 Lperf= 10.00 in
 KCKf=.60

Inflow Curve qmax
 1 Jones

Outflow Curve Pwh
 a FundFlow-A 350
 b FundFlow-A 350

SEP 10 '85 07:42 TENNECO FARMINGTON

B & R SERVICE, INC.

P.O. BOX 1048

FARMINGTON, NEW MEXICO 87499

P.3

TENNECO OIL CO.

FIELDS 2-A

SAN JUAN COUNTY, N.M.

BOMBS HUNG @ 5250' G.L.

0 HRS. @ 12:48 P.M. 9-6-85

FLOW

FBHP

PSIG

FTP = 350 PSIG

FCP = 530 PSIG

0:00	598.5	$\Delta P_f = 595 - 350 = 245 \text{ Psi} @ 1650 \text{ MCFD \& 20 BOPD.}$
0:18	590.4	
0:25	594.5	
0:30	594.5	
1:00	594.5	
1:30	594.5	
2:00	594.5	
2:30	594.5	
3:00	594.5	
3:30	594.5	
4:00	594.5	
4:35	594.5	

FIGURE 3

