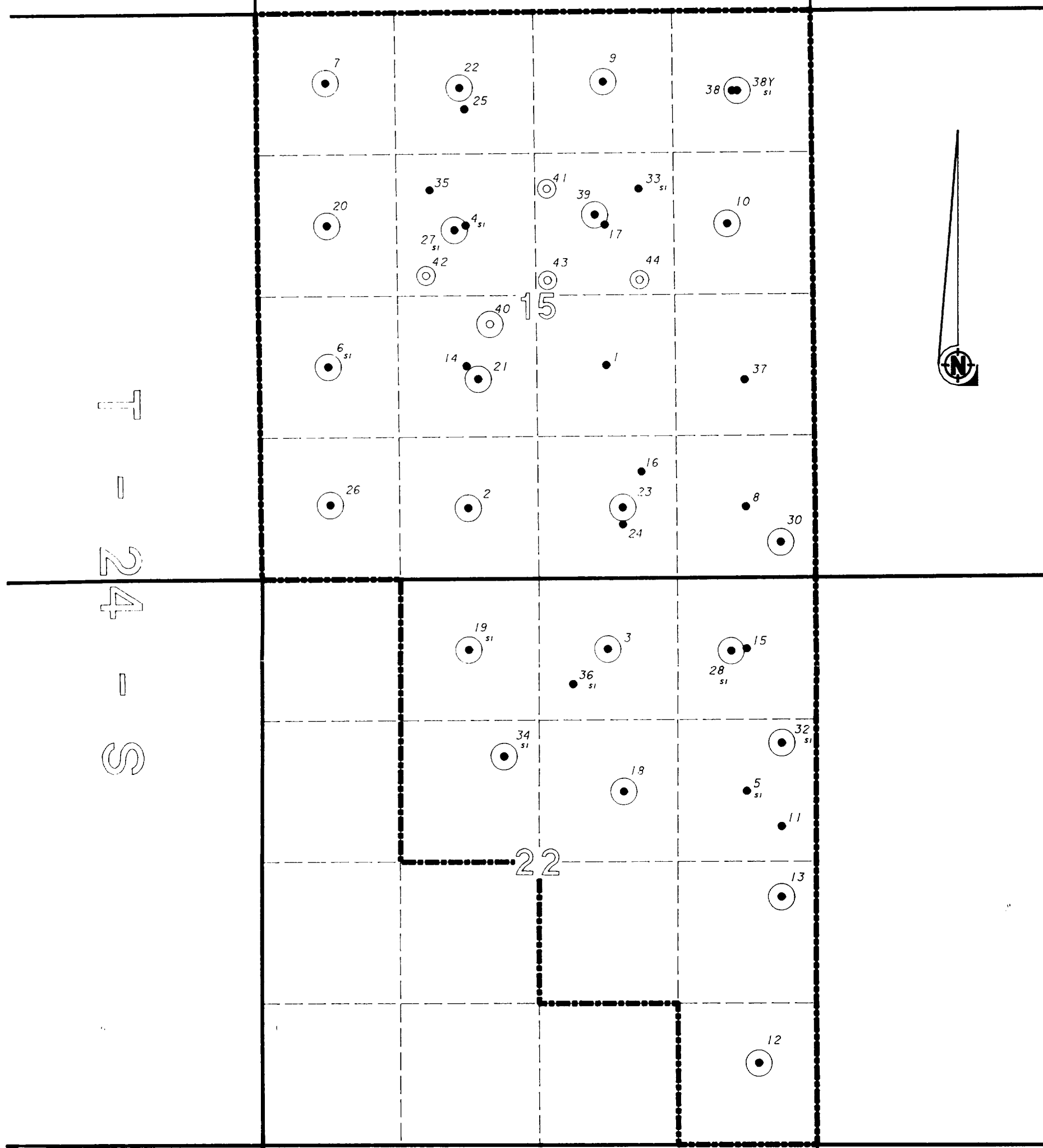


R - 37 - E



Exhibits 1 through 13
Complete Set

Amoco Production Company
Exhibit No. 2
Case No. 10406
October 31, 1991

FOWLER, UPPER YESO WELLS -----○¹⁸
PROPOSED FOWLER, UPPER YESO WELLS --○¹⁸
PROPOSED INJECTION WELLS -----○¹⁸
SHUT-IN WELLS -----○¹⁸
UNIT BOUNDARY -----

UNIT LPN 080792
FOWLER, UPPER YESO FIELD

Amoco Production Company
Land Survey Department
Unit Plat
SOUTH MATTIX UNIT
FEDERAL

Out of Sections 15 and 22,
T-24-S, R-37-E.

Lea County, New Mexico

PERTINENT DATA SHEET
FOWLER (UPPER YESO) FIELD

General

Discovery Well	Gulf's Plains Knight No. 2
Feb. 1954	Sec.23, T-24-S, R-37-E
Structure	Anticline
No. of Wells	
Producing	34
Abandoned/Recompleted	8
Shut-in	11
Producing Depth (Avg.)	5,300'
Producing Mechanism	Solution Gas Drive

Formation Data

Type Rock	Dolomite
Average Net Pay Porosity	6.1 %
Original Water Saturation	16.4 %
Reservoir Temperature	115 F

Fluid Data

Type of Crude	Sour
Original Reservoir Pressure	1,100 psia @ -2,271'
Formation Volume Factor	1.2933 BO/STBO

<u>Reserve Data</u>	<u>FIELD</u>	<u>SMUF</u>
Ultimate Primary Recovery	4.9 MMBO	3.3 MMBO
Cumulative Production	4.3 MMBO	3.0 MMBO
Remaining Reserves (Aug 1991)	0.6 MMBO	0.3 MMBO

Current Production

(August 1991)

125 BOPD	100 BOPD
1890 MCFD	1580 MCFD
948 BWPD	300 BWPD

*15 wells currently
producing*

Amoco Production Company

Exhibit No. 3

Case No. 10406

October 31, 1991

TYPE LOG

PAN AMERICAN PET. CORP.
SOUTH MATTIX UNIT NO. 16
990' FSL x 990' FWL, SE₄
SECTION 15, T24S-R37E
LEA CO., NM

ZONE I ϕ AVG = 8.02%
K AVG = 1.55 MD.

ZONE II ϕ AVG = 8.16%
K AVG = 1.135 MD.

ZONE IIIA ϕ AVG = 6.4%
K AVG = 0.64 MD.

ZONE IIIB ϕ AVG = 8.14%
K AVG = 1.1 MD.

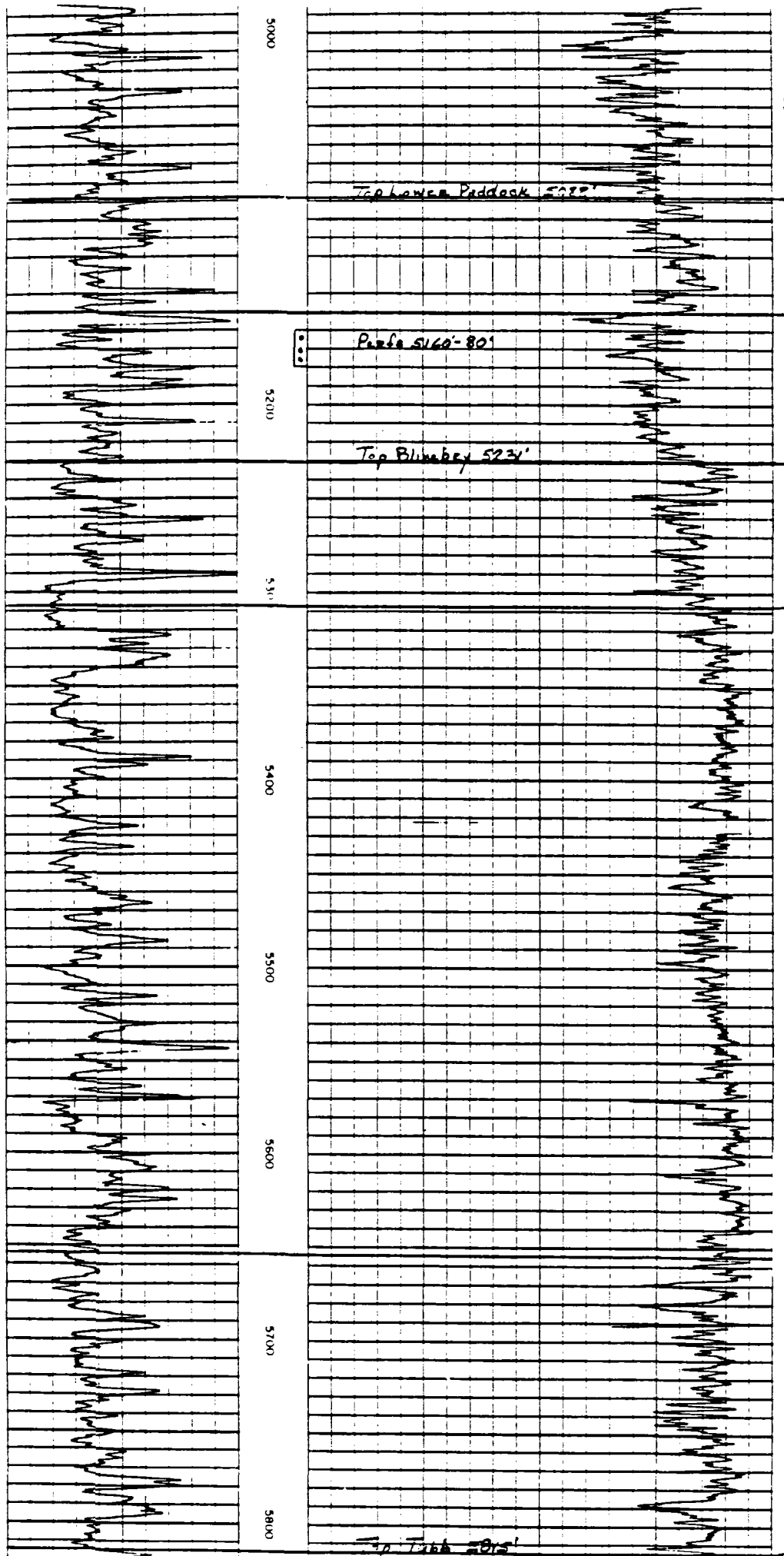
Amoco Production Company

Exhibit No. 4

Case No. 10406

October 31, 1991

ZONE IV ϕ AVG = NA
K AVG = NA





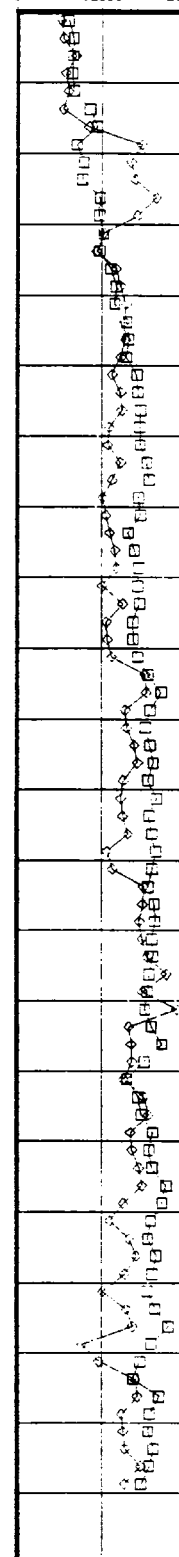
PROD. WELLS

WELL: JOURNAL 11-1111-1111
FIELD: FOWLER (FOWLER) CO.
OPERATOR: AMOCO PRODUCTION CO.
STATE: NM 30 COUNTY: LEA
FIRST PROD: LAST PROD 9012
REQUESTOR: WISE -18JEW

LOCATION: SWTUM BU

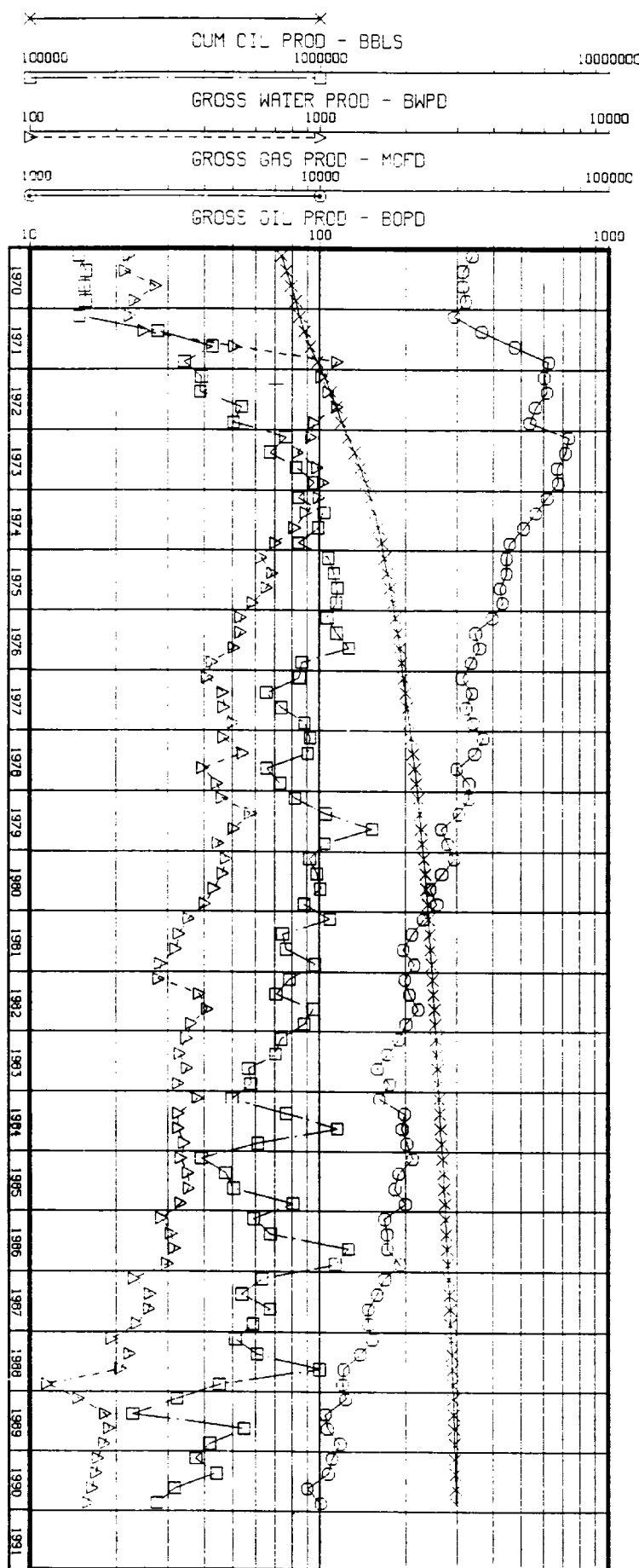
PERF:
COMPLETION:
TOT. OIL CUM: 2,986,698
TOT. GAS CUM: 39,823,115

PERCENT BSW
FTP. IN PSIG
GOR - CFPB



MAJOR PRODUCT

338
314
314
323
333
355
476
624
622
614
551
536
730
712
668
673
617
653
511
458
446
447
424
422
338
348
350
358
313
339
324
342
371
347
330
332
331
336
256
256
234
257
244
257
231
210
196
214
199
206
221
220
198
172
169
176
162
138
194
231
211
139
133
198
168
172
172
131
138
159
147
146
137
136
131
133
105
106
106
110
107
90
101



1991-08-22

TIME

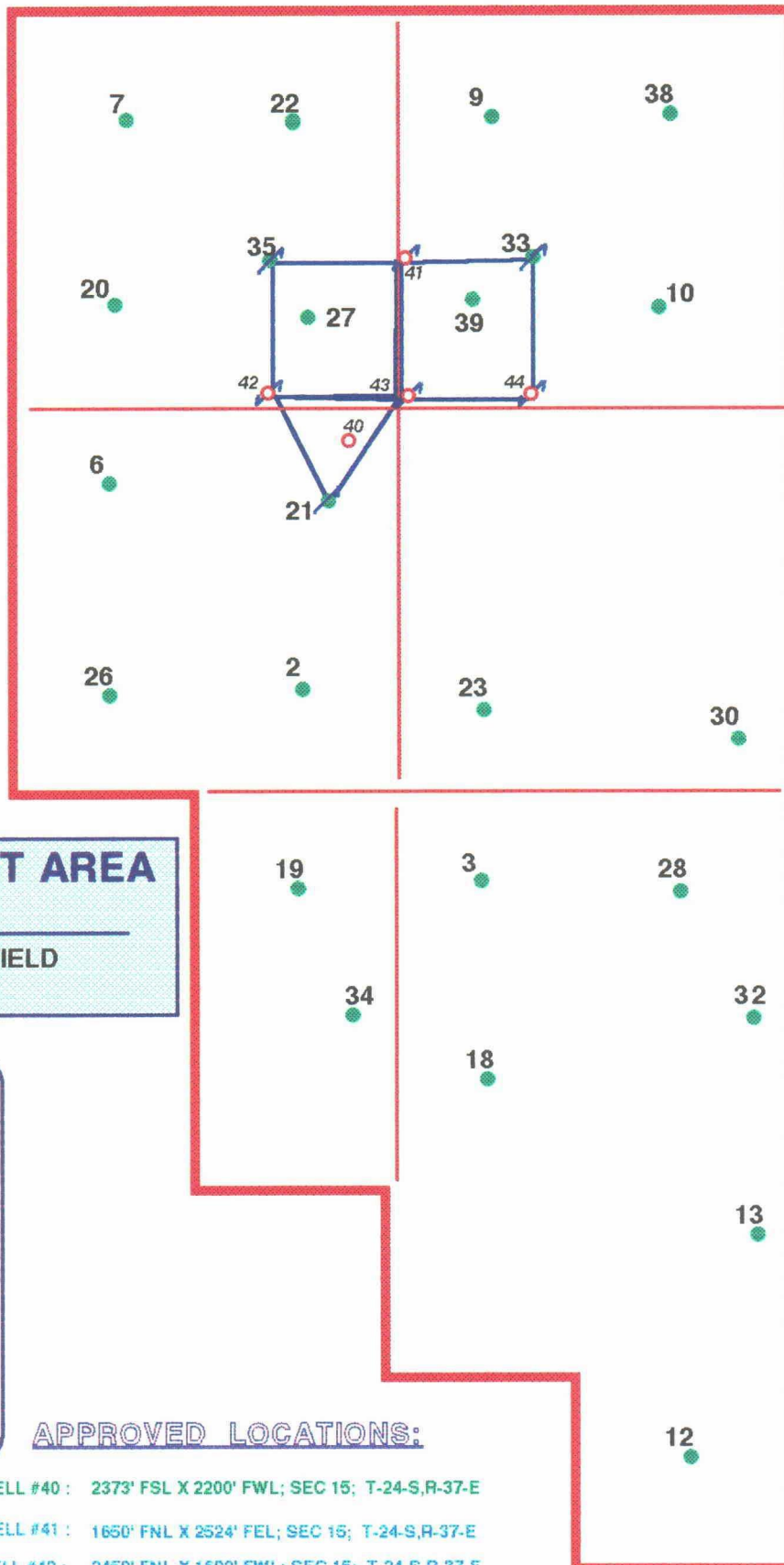
REPORT NUMBER 321

Amoco Production Company

Exhibit No. 5

Case No. 10406

October 31 1991



SOUTH MATTIX UNIT AREA LEA CO., NM

FWLER (UPPER YESO) FIELD
AMOCO WI : 83.42%*

LEGEND

- PRODUCER
- ➡ INJECTOR
- Proposed PRODUCER
- ➡ Proposed INJECTOR
- ➡ Convert to WIW

□ PATTERN

APPROVED LOCATIONS:

PRODUCER -- WELL #40 : 2373' FSL X 2200' FWL; SEC 15; T-24-S,R-37-E

INJECTORS -- WELL #41 : 1650' FNL X 2524' FEL; SEC 15; T-24-S,R-37-E

WELL #42 : 2450' FNL X 1600' FWL; SEC 15; T-24-S,R-37-E

WELL #43 : 2500' FNL X 2524' FEL; SEC 15; T-24-S,R-37-E

WELL #44 : 2500' FNL X 1650' FEL; SEC 15; T-24-S,R-37-E

Amoco Production Company

Exhibit No. 6

Case No. 10406

October 31, 1991

Case No. 10406
Amoco Production Company
Proposed Injection Well Locations
South Mattix Unit
All in Section 15, Township 24 South, Range 37 East, N.M.P.M.
Lea County, New Mexico

<u>Well No.</u>	<u>Footage Location</u>
21 <i>existing</i>	1,873' FSL - 2,087' FWL
33 <i>existing</i>	1,650' FNL - 1,650' FEL
35 <i>existing</i>	1,650' FNL - 1,650' FWL
41	1,650' FNL - 2,524' FEL
42	2,450' FNL - 1,600' FWL
43	2,500' FNL - 2,524' FEL
44	2,500' FNL - 1,650' FEL

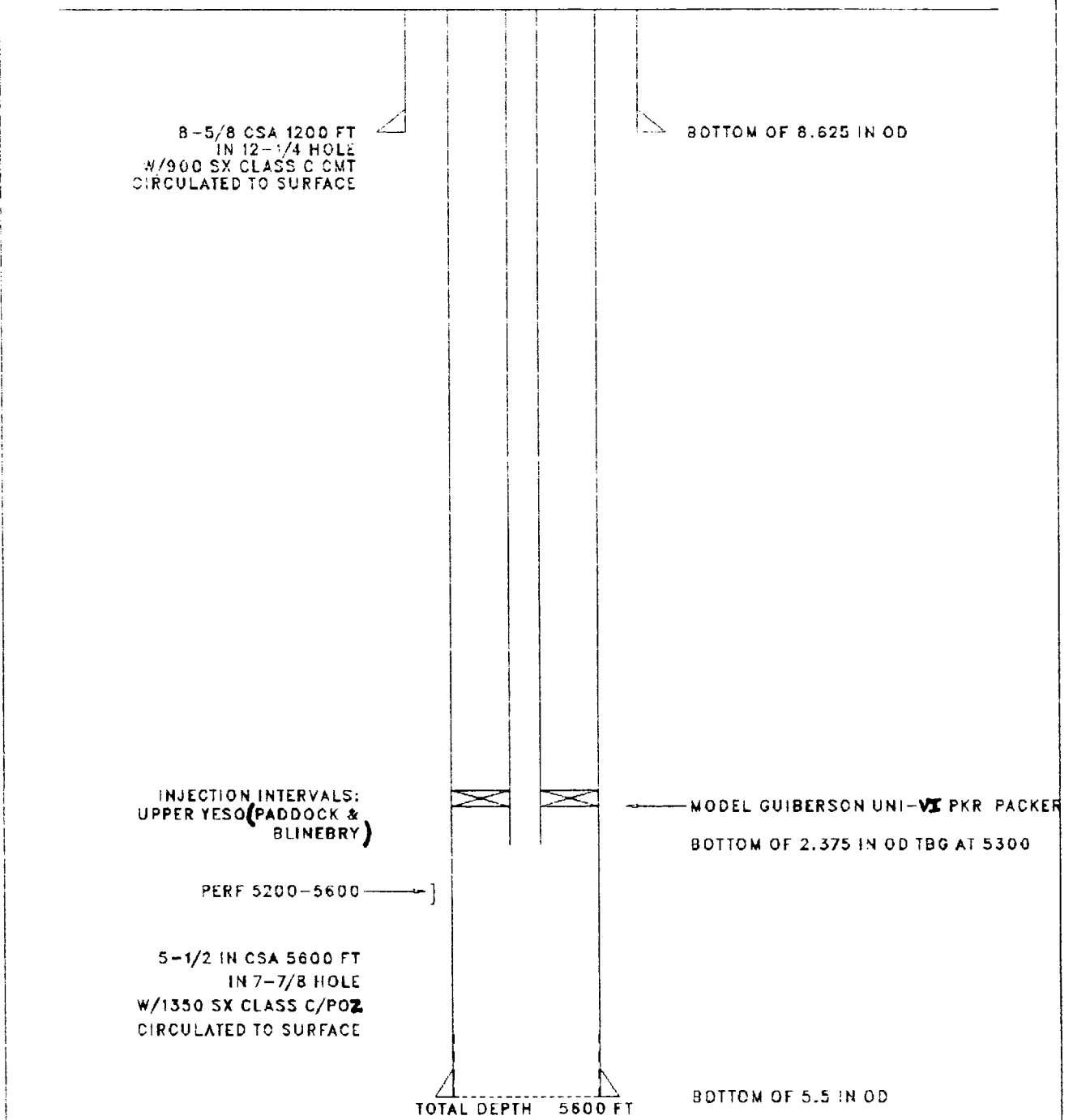
Amoco Production Company

Exhibit No. 7

Case No. 10406

October 31, 1991

TYPICAL WELLBORE SKETCH (INJECTION)
SOUTH MATTIX UNIT FEDERAL
SEC 15, T34S, R37E
LEA COUNTY, NEW MEXICO

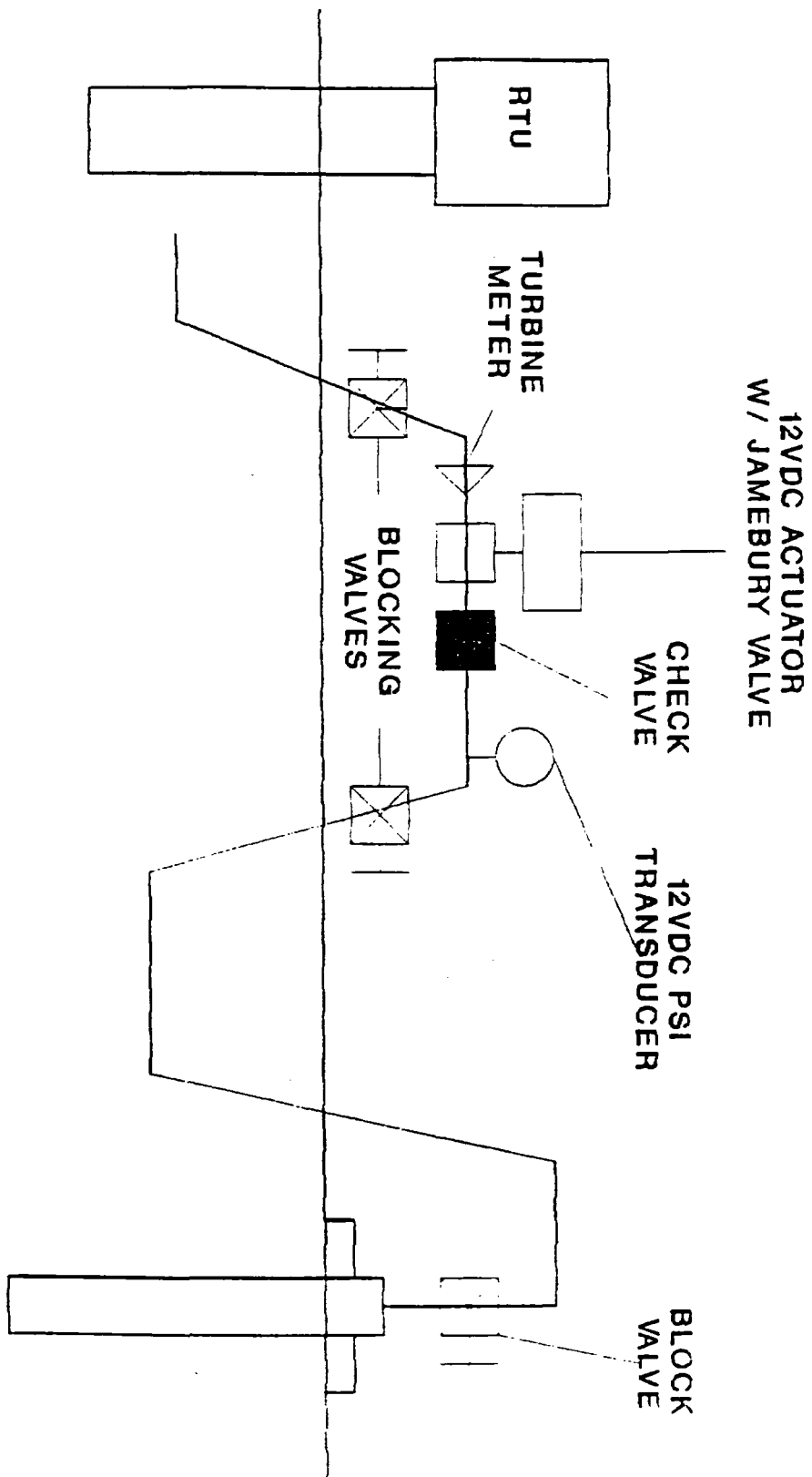


Amoco Production Company

Exhibit No. 8

Case No. 10406

October 31, 1991



Amoco Production Company

Exhibit No. 9

Case No. 10406

October 31, 1991

**SOUTH MATTIX UNIT FEDERAL
COST ESTIMATES**

		<i>COST PER WELL (GROSS)</i>			
		D X D	P X F	SUB-TOTAL	TOTALS
		(\$M)	(\$M)	(\$M)	(\$M)
DRILL PRODUCER	1	256	20	276	276
DRILL INJECTOR	4	0	256	256	1024
CONVERT TO WIW	3	20	0	20	60
INJECTION FACILITY	*		281	281	281
<i>TOTALS</i>		\$316 M	\$557 M	\$833 M	\$1,641 M

Amoco Production Company

Exhibit No. 10

Case No. 10406

October 31, 1991

SMUF WF RATE PLOT

SOUTH MATTIX UNIT FEDERAL WATERFLOOD AREA PROFILE

