

South Golden Lane (Delaware) Field Golden 8 Federal No. 3

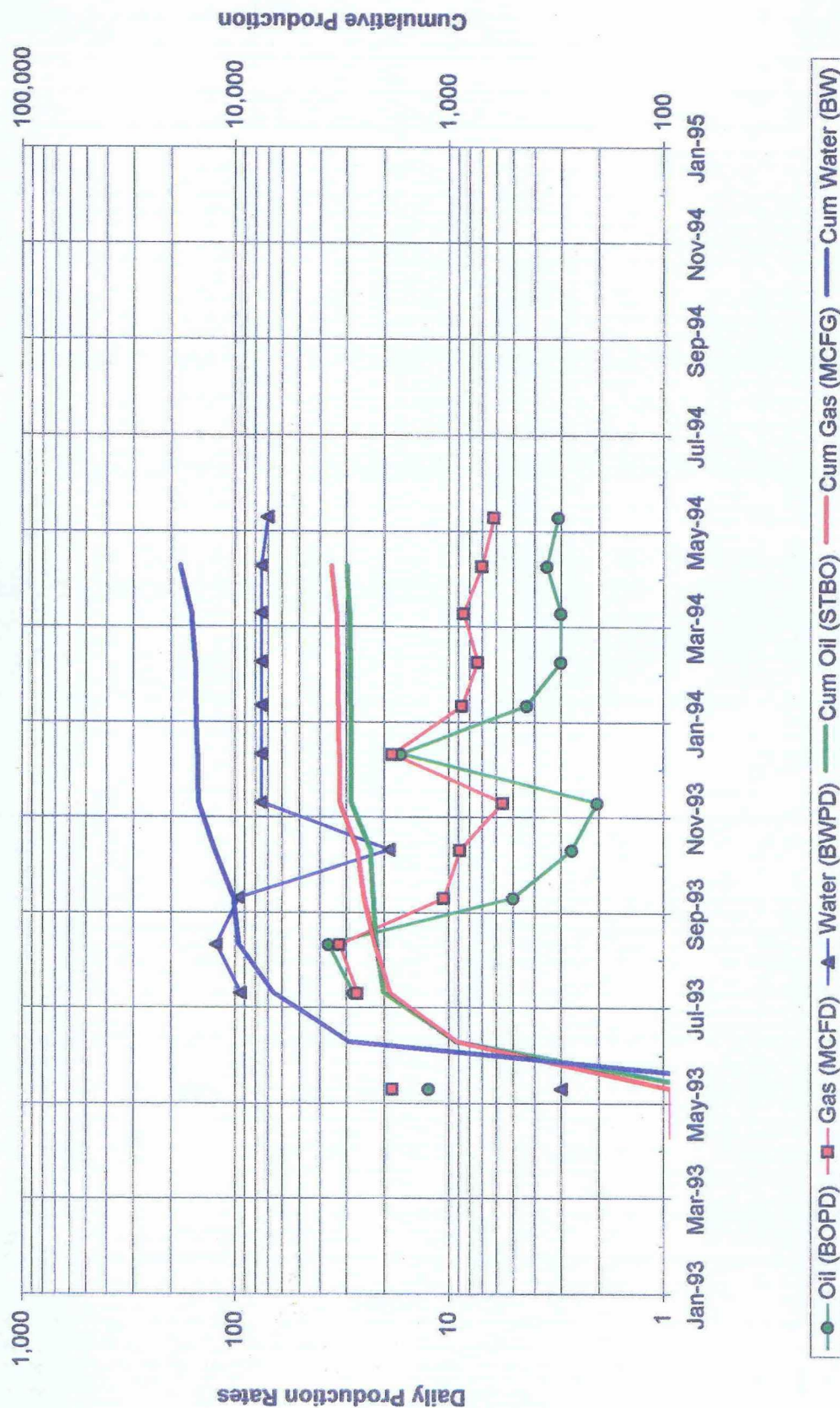


Exhibit No.: 6

Operator: Bass Enterprises Prod. Co.

Case No.: 11078

Date: September 1, 1994

South Golden Lane (Delaware) Field

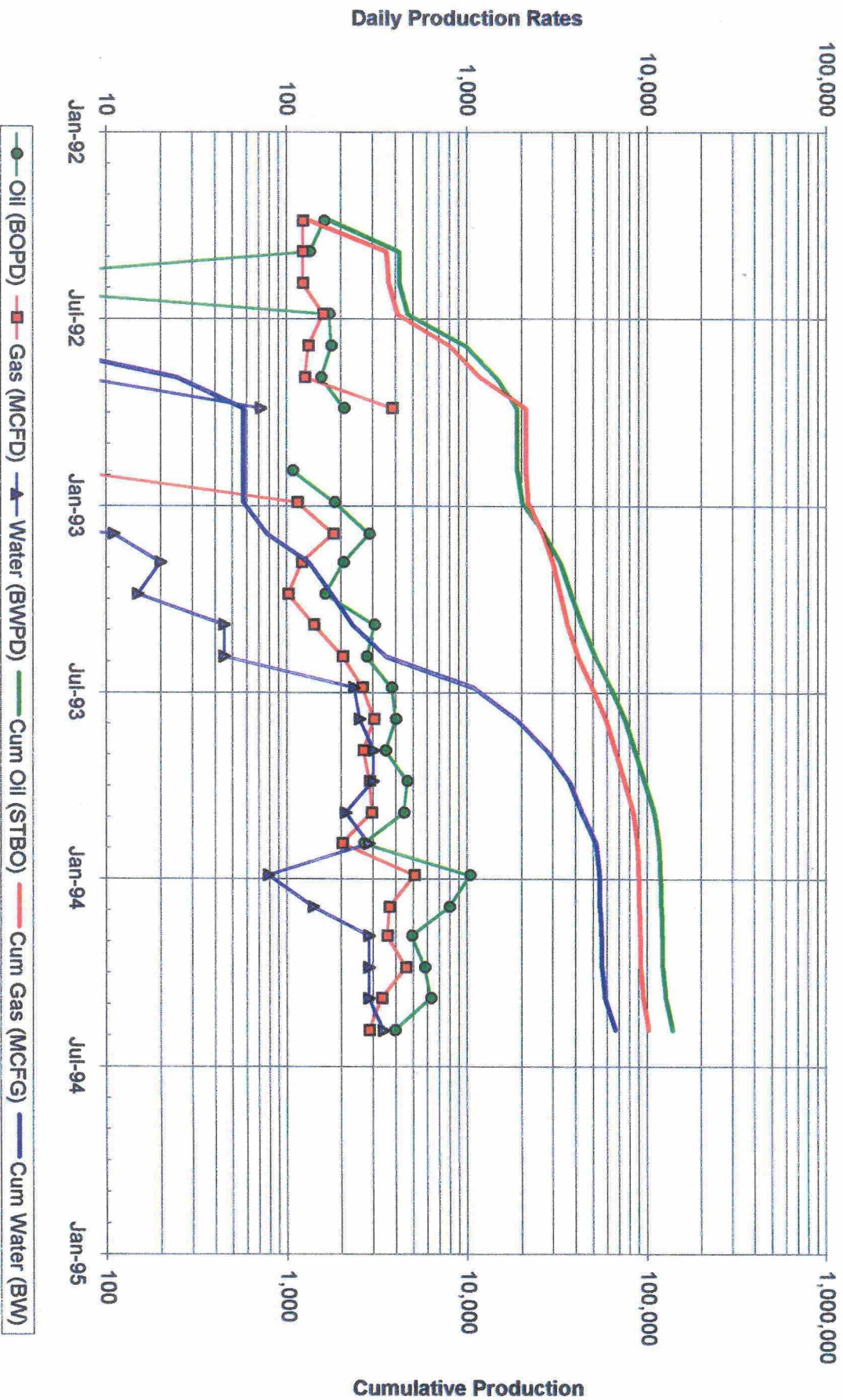


Exhibit No.: 5

Operator: Bass Enterprises Prod. Co.

Case No.: 11078

Date: September 1, 1994

SOUTH GOLDEN LANE (DELAWARE) FIELD

RESERVOIR SIMULATION STUDY

INPUT DATA

Model: DRS single porosity black oil by SIMTEC

Grid: 19 x 20 x 11

Structure: As per structure map

Initial Pressure: 1,910 psia

Porosity: 22% (from log and core data)

Water Saturation: 60% (from log data, refined by history match)

Permeability: 26 md (from core data and Golden 8 Federal #1 PBU Survey)

Fluid Properties: PVT study

Exhibit No.: 8

Operator: Bass Enterprises Prod. Co.

Case No.: 11078

Date: September 1, 1994

SOUTH GOLDEN LANE (DELAWARE) FIELD

RESERVOIR DATA SHEET

Discovery Well: Golden 8 Federal No. 1
Completion Date: March 1992
IP Rate: 149 BOPD, 145 MCFD and 0 BWPD

Cumulative Production:
Oil (to 7-1-94) 139,795 STBO
Gas (to 7-1-94) 103,571 MCF

Initial Reservoir Pressure: 1,910 psia
Current Known Reservoir Area: 301 Acres
Average Porosity Thickness: 2.888
Average Water Saturation: 55%
Oil Formation Volume Factor: 1.327 RB/STBO

Volumetric Original Oil in Place: 2,287 MSTBO

Estimated Ultimate Oil Recovery without Pressure Maintenance: 602 MSTBO

Estimated Ultimate Oil Recovery with Pressure Maintenance: 678 MSTBO

Incremental Oil Recovery due to Pressure Maintenance: 76 MSTBO

Exhibit No.: 7
Operator: Bass Enterprises Prod. Co.
Case No.: 11078
Date: September 1, 1994

South Golden Lane Simulation Oil Saturation and Grid Lines

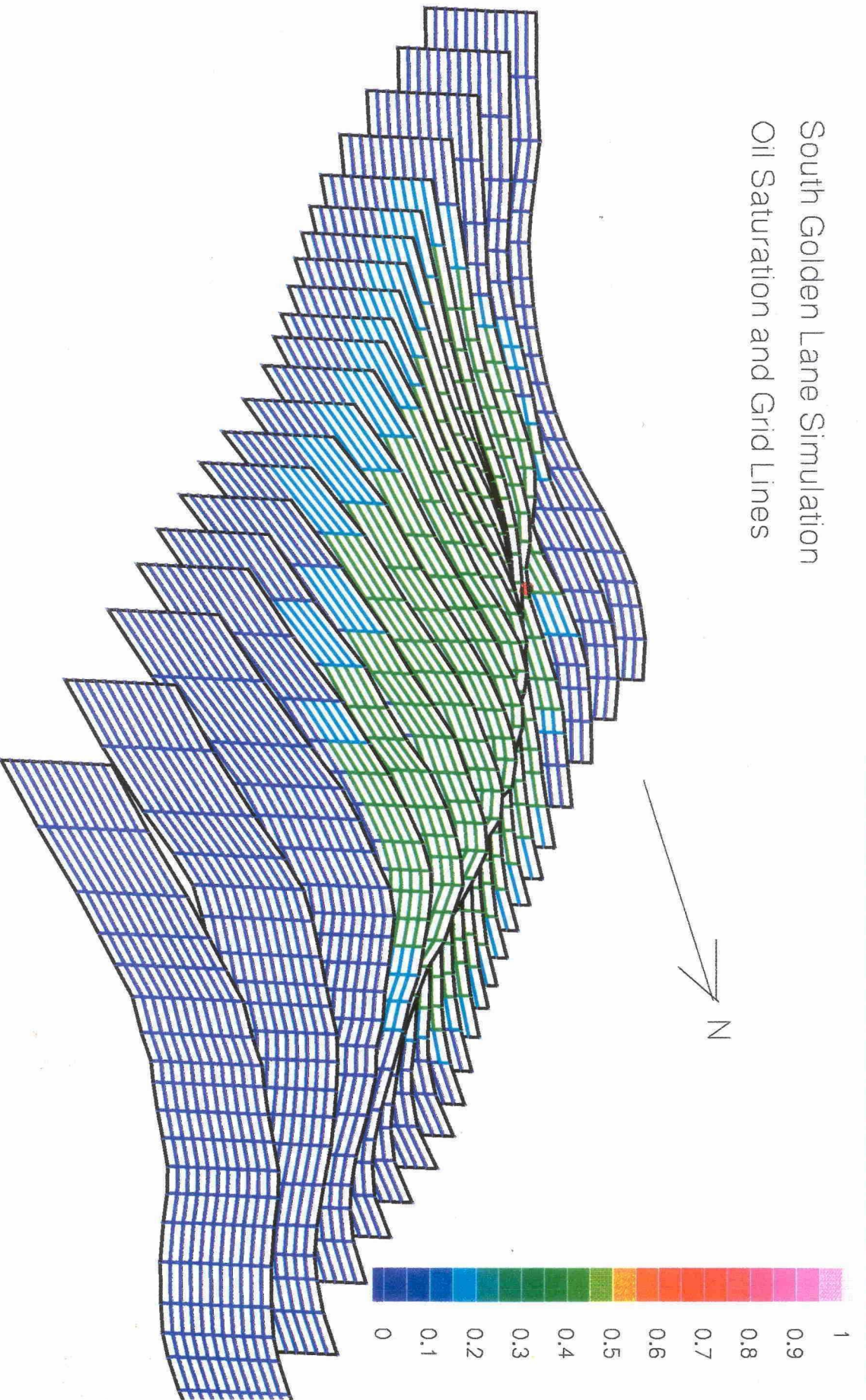


Exhibit No.: 9
Operator: Bass Enterprises Prod. Co.
Case No.: 11078
Date: September 1, 1994

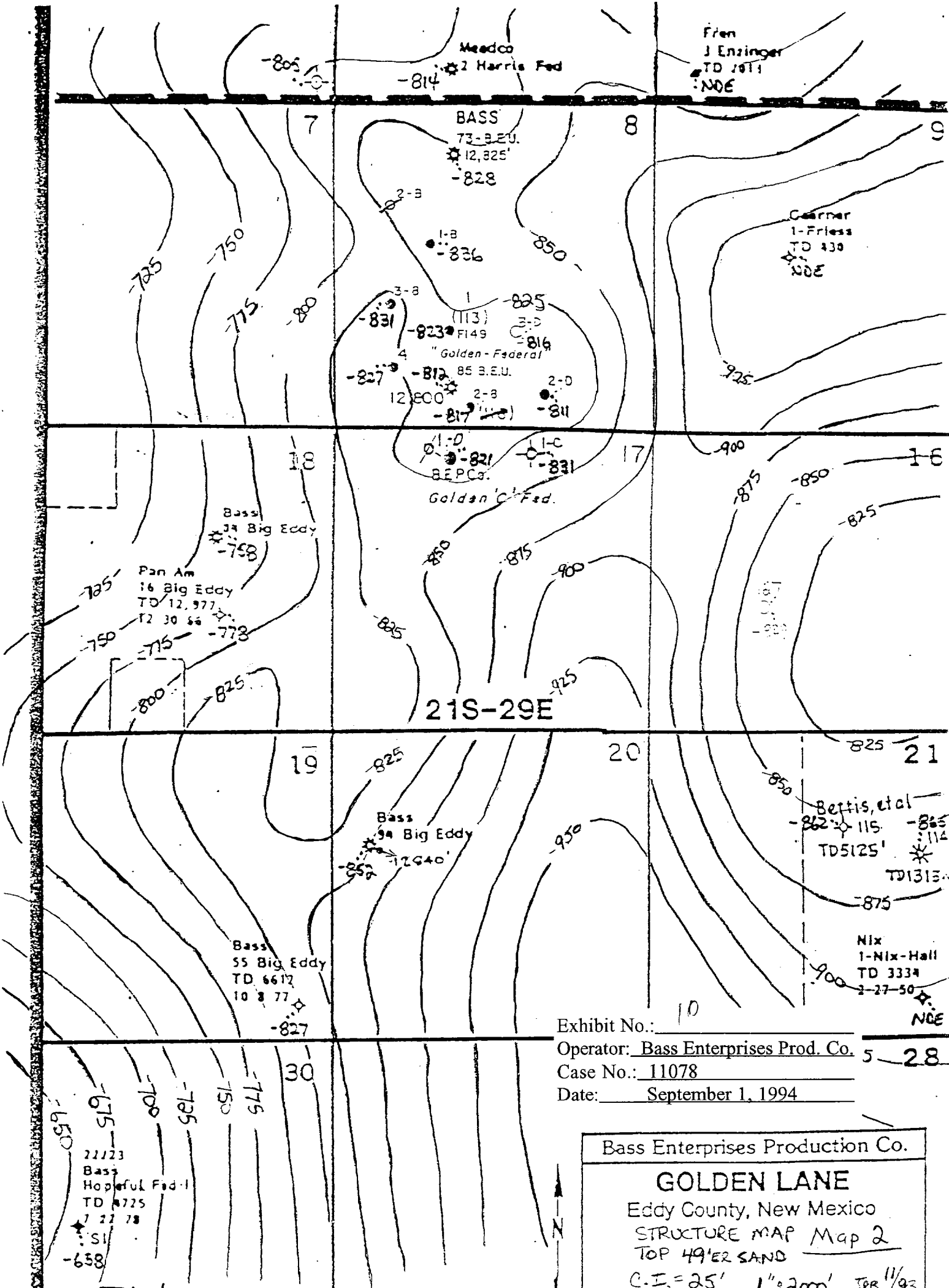


Exhibit No.: 10
Operator: Bass Enterprises Prod. Co.
Case No.: 11078
Date: September 1, 1994

Bass Enterprises Production Co.

GOLDEN LANE
Eddy County, New Mexico
STRUCTURE MAP Map 2
TOP 49'ER SAND
C.I. = 25' 1" x 200' JBR 11/92

GETTY

Fren
2 Enzinger
TD 2368
4-21-56



Harris
1 Harris
TD 200
Harris
1-Y Harris
TD 1880

Meadco
2 Harris Fed

Fren
3 Enzinger
TD 2011

7

BASS
73-B.E.U.
12,825'

8

9

2-B

1-B

3-B

(11-3)
E.A.S.

4

"Golden Federal"

85 B.E.U.

12,800'

2-B

(11-5)

11-2'

8 E.P.C.

Golden 'C' Fed

Garner
1-Frless
TD 438

18

Bass
84 Big Eddy

Pan Am
16 Big Eddy
TD 12,977
12-30-66

17

16

21S-29E

19

20

21

Bass
94 Big Eddy
12,840'

Exhibit No.: 11
Operator: Bass Enterprises Prod. Co.
Case No.: 11078
Date: September 1, 1994

Bass
55 Big Eddy
TD 6612
10-8-77

Bass Enterprises Production Co.

S. GOLDEN LANE
Eddy County, New Mexico

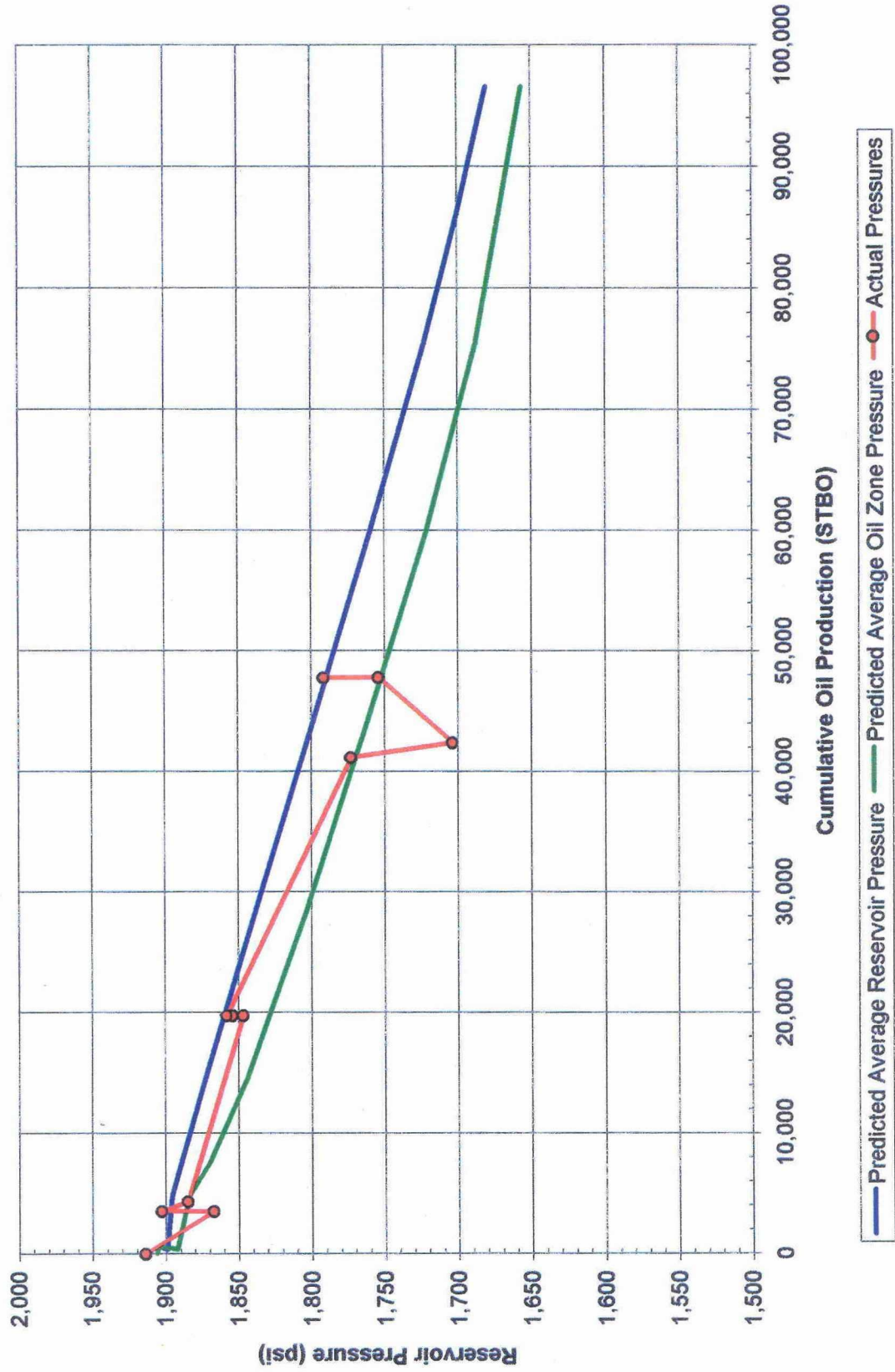
Simulation Grid

30

29

1" = 2000'

South Golden Lane Field Reservoir Simulation Pressure History Match



12

Exhibit No.:

Operator: Bass Enterprises Prod. Co.

Case No.: 11078

Date: September 1, 1994

South Golden Lane (Delaware) Field

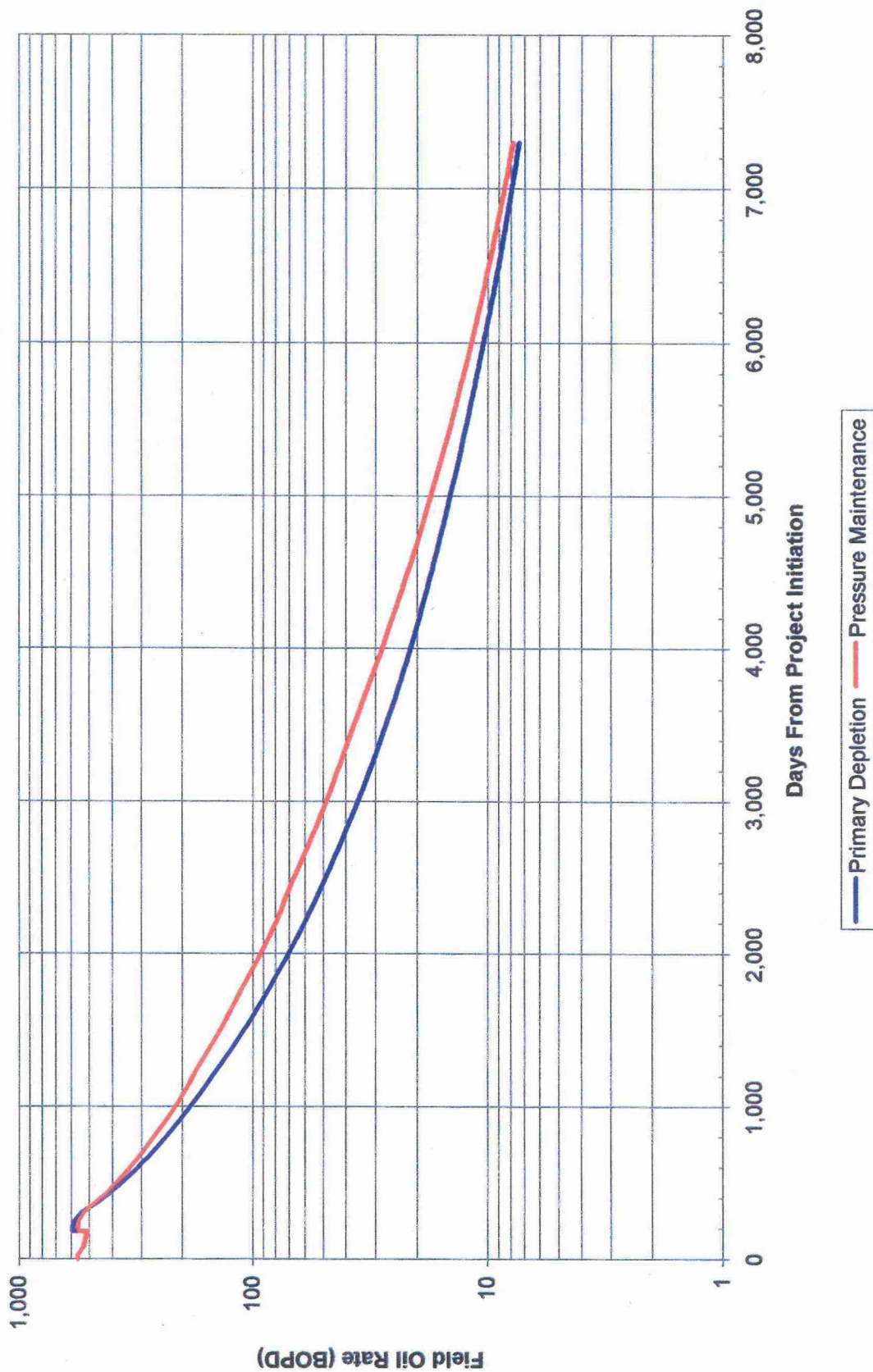


Exhibit No.: 13

Operator: Bass Enterprises Prod. Co.

Case No.: 11078

Date: September 1, 1994

South Golden Lane (Delaware) Field

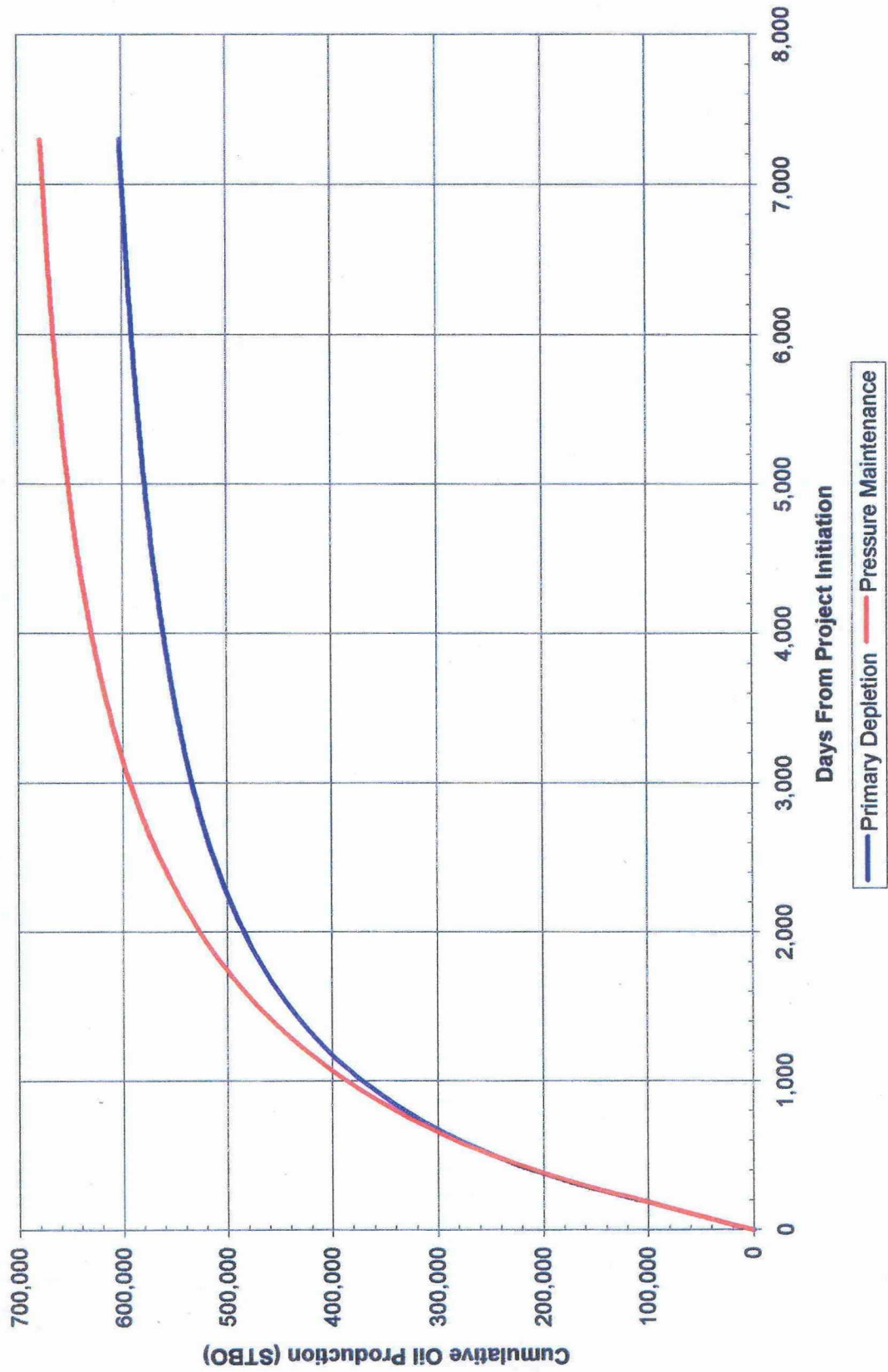


Exhibit No.: 14

Operator: Bass Enterprises Prod. Co.

Case No.: 11078

Date: September 1, 1994

PRESENT WELLBORE DIAGRAM

Bass Enterprises Production Company
South Golden Lane (Delaware) Field
Golden 8 Federal No. 3
API No.: 30-015-27283
Eddy County, New Mexico

KBE = 3408'

HOLE SIZE: 14-3/4"

Surf Csg: 11-3/4" 42 #/ft H-40 ST&C CSA @ 1,240'
cmt'd to surface w/ 750 sx class C cmt

DV tool @ 2,022'

HOLE SIZE: 11" to 2,822'

Baker model "B" TAC @ 4,175'

Delaware

4,248' - 4,252'
(6 JSPF, 38 holes)

2-3/8" EUE 8rd 4.7# J-55 tbg to 4,305'

HOLE SIZE: 7-7/8"

Prod Csg: 5-1/2" 14 #/ft K-55 ST&C CSA @ 4,575'
cmt'd to surface w/ 1500 sx Halli Lite cmt in 2 stages

PBTD @ 4,487'

TD = 4,578'

Exhibit No.: 15
Operator: Bass Enterprises Production Co.
Case No.: 11078
Date: September 1, 1994

PROPOSED WELLBORE DIAGRAM

Bass Enterprises Production Company
South Golden Lane (Delaware) Field
Golden 8 Federal No. 3
API No.: 30-015-27283
Eddy County, New Mexico

KBE = 3408'

HOLE SIZE: 14-3/4"

Surf Csg: 11-3/4" 42 #/ft H-40 ST&C CSA @ 1,240'
cmt'd to surface w/ 750 sx class C cmt

DV tool @ 2,022'

HOLE SIZE: 11" to 2,822'

2-3/8" IPC tbg

Baker model "TSN" @ 4,225'

Delaware

4,248' - 4,310'

HOLE SIZE: 7-7/8"

Prod Csg: 5-1/2" 14 #/ft K-55 ST&C CSA @ 4,575'
cmt'd to surface w/ 1500 sx Halli Lite cmt in 2 stages

PBTD @ 4,487'

TD = 4,578'

Exhibit No.: 16
Operator: Bass Enterprises Production Co.
Case No.: 11078
Date: September 1, 1994

INJECTION WELL DATA SHEET

Exhibit No.: 17

Operator: Bass Enterprises Prod. Co

Case No.: 11078

Date: September 1, 1994

OPERATOR

BASS ENTERPRISES PRODUCTION CO.

LEASE GOLDEN 8 FEDERAL

WELL NO.

#3

1980' FSL & 660' FWL

8

T21S

R29E

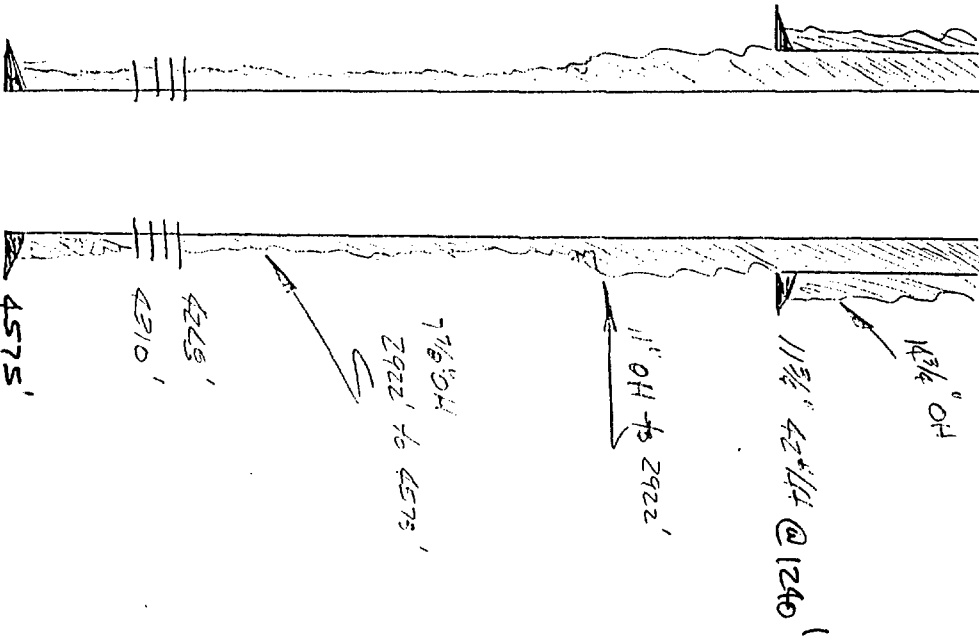
FOOTAGE LOCATION

SECTION

TOWNSHIP

RANGE

Schematic



Well Construction Data

Surface Casing

Size 11-3/4" Cemented with 750 sx.

TOC Surface feet determined by circulation

Hole Size 14-3/4"

Intermediate Casing

Size Cemented with sx.

TOC feet determined by

Hole Size

Long String

Size 5-1/2" Cemented with 1500 sx.

TOC Surface feet determined by circulation

Hole Size 11" to 2922', 7-7/8" from 2922' to 4575'

Total Depth 4575'

Injection Interval

4248 feet to 4310 feet
(perforated or open-hole; indicate which)

INJECTION WELL DATA SHEET

Tubing Size 2-3/8" lined with internal plastic coating set in a
Baker 5-1-2" "TSN" (type of internal coating) packer at 4225' feet

Other type of tubing / casing seal if applicable _____

Other Data

1. Is this a new well drilled for injection? Yes XXXX No

If no, for what purpose was the well originally drilled? oil and gas exploration

2. Name of the Injection formation Cherry Canyon 49er

3. Name of Field or Pool (if applicable) S. Golden Lane

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, i.e., sacks of cement or plug(s) used. None

5. Give the names and depths of any over or underlying oil or gas zones (pools) in this area.

Golden Lane (Wolfcamp) 10,000'

Golden Lane (Morrow) 12,000'

BASS ENTERPRISES PRODUCTION CO.

**INDIVIDUAL WELL DATA OF WELLS WITHIN AREA OF REVIEW
SECTION VI, FORM C-108**

GOLDEN 8 FEDERAL #3

Map No.	Operator Well Name	Location	Spud	TD	Completion	Surface Casing	Cement	TOC
1	BEPCO Big Eddy #73	1980' FEL & 660' FNL Section 8, T21S, R29E	08/25/78	12,802'	06/20/79	11-3/4" @ 501'	500 sk	Surface
2	BEPCO Big Eddy #85	660' FSL & 1980' FWL Section 8, T21S, R29E	05/28/81	12,800'	08/26/81	11-3/4" @ 755'	475 sk	Surface
3	BEPCO Golden 8 Federal #1	1650' FSL & 2180' FWL Section 8, T21S, R29E	03/03/92	6,800'	05/18/92	8-5/8" @ 810'	480 sk	Surface
4	BEPCO Golden 8 Federal #2	2310' FWL & 330' FSL Section 8, T21S, R29E	07/09/92	4,506'	10/28/92	11-3/4" @ 695'	500 sk	Surface
5	BEPCO Golden 8 Federal #4	990' FSL & 990' FWL Section 8, T21S, R29E	01/15/93	4,573'	02/09/93	11-3/4" @ 900'	500 sk	Surface
6	BEPCO Golden B Federal #1	2310' FNL & 1650' FWL Section 8, T21S, R29E	09/09/92	4,514'	02/16/93	11-3/4" @ 821'	500 sk	Surface
7	BEPCO Golden D Federal #1	1980' FWL & 495' FEL Section 17, T21S, R29E	06/14/93	4,550'	08/03/93	9-5/8" @ 665'	400 sk	Surface
8	BEPCO Golden D Federal #2	660' FSL & 1980' FEL Section 8, T21S, R29E	05/04/93	4,550'	06/07/93	11-3/4" @ 896'	510 sk	Surface
9	BEPCO Golden D Federal #3	2310' FEL & 1650' FSL Section 8, T21S, R29E	10/04/93	4,525'	11/08/93	11-3/4" @ 1250'	880 sk	Surface

Exhibit No.: 18
 Operator: Bass Enterprises Prod. Co.
 Case No.: 11078
 Date: September 1, 1994

BASS ENTERPRISES PRODUCTION CO.

**INDIVIDUAL WELL DATA OF WELLS WITHIN AREA OF REVIEW
SECTION VI, FORM C-108X
GOLDEN 8 FEDERAL #3**

Map No.	Operator Well Name	Intermediate Casing	Cement	TOC	Production Casing	Cement	Stage Tool	TOC ⁽³⁾	Perfs	Type
1	BEPCO Big Eddy #73	8-5/8" @ 3354'	1675 sk	Surface	5-1/2" @ 12,802'	1150 sk	None	7,716'	12,595-12,641'	Gas
2	BEPCO Big Eddy #85	8-5/8" @ 3300'	2150 sk	Surface	5-1/2" @ 12,800'	1075 sk	4,548'	2,857'	12,365-12,516'	Gas
3	BEPCO Golden 8 Federal #1	7" @ 3165'	800 sk	Surface	4-1/2" @ 6,800'	400 sk	3,727'	545'	4,238-4,262'	Oil
4	BEPCO Golden 8 Federal #2	8-5/8" @ 2982'	1600 sk	Surface	5-1/2" @ 4,506'	315 sk	None	1,757'	4,195-4,218'	Oil
5	BEPCO Golden 8 Federal #4	8-5/8" @ 3020'	1200 sk	Surface	5-1/2" @ 4,573'	350 sk	None	1,866'	4,214-4,228'	Oil
6	BEPCO Golden B Federal #1	9-5/8" @ 1570' 7" @ 3052'	600 sk 525 sk	1140' ⁽¹⁾ 2671' ⁽²⁾	4-1/2" @ 4,515'	350 sk	2,998'	Surface	4,260-4,274'	Oil
7	BEPCO Golden D Federal #1	---	---	---	5-1/2" @ 4,550'	1370 sk	2,860'	Surface	4,208-4,224'	Oil
8	BEPCO Golden D Federal #2	8-5/8" @ 3000'	1315 sk	Surface	5-1/2" @ 4,550'	350 sk	None	1,538'	4,203-4,218'	Oil
9	BEPCO Golden D Federal #3	---	---	---	5-1/2" @ 4,525'	1660 sk	2,462'	Surface	4,226-4,259'	Oil

⁽¹⁾ by temperature log

⁽²⁾ calculated using fullsize bit and SF of 2

⁽³⁾ TOC calculated from OH caliper log

BASS ENTERPRISES PRODUCTION CO.

**OPERATIONAL DATA
SECTION VII, FORM C-108**

GOLDEN 8 FEDERAL #3

AVERAGE DAILY INJECTION RATE	500 BWPD
MAXIMUM DAILY INJECTION RATE	1000 BWPD
TYPE SYSTEM	CLOSED
AVERAGE INJECTION PRESSURE	800 PSI
MAXIMUM INJECTION PRESSURE	850 PSI
SOURCE OF INJECTED WATER	DELAWARE PRODUCED WATER
MEANS OF DISPOSAL	THROUGH 2-3/8" IPC TUBING BELOW PACKER
PROPOSED DISPOSAL INTERVAL	DELAWARE (RAMSEY)
PROPOSED DISPOSAL DEPTH	4,248-4,310'

Exhibit No.: 19
Operator: Bass Enterprises Prod. Co.
Case No.: 11078
Date: September 1, 1994

BASS ENTERPRISES PRODUCTION CO.

**GEOLOGIC DISCUSSION
SECTION VIII, FORM C-108**

GOLDEN 8 FEDERAL #3

The proposed injection zone is the "49er" sand member of the Cherry Canyon interval of the Delaware Mountain Group. The Delaware Mountain Group consists of fine sands, silts and thin limestone beds. The injection zone averages 90' in thickness with the top at 4248'.

One fresh water well is known to exist within 1 mile of proposed injection well. This well is located in the NE¼ NW¼, Section 18, T-21-S, R-29-E, Eddy County, New Mexico. This water is believed to be Rustler water at depth of 190'-286'. No sources of potable water are known to exist below the proposed injection zone.

Exhibit No.: 20
Operator: Bass Enterprises Prod. Co.
Case No.: 11078
Date: September 1, 1994

BASS ENTERPRISES PRODUCTION CO.

**PROPOSED STIMULATION PROCEDURE
SECTION IX, FORM C-108**

GOLDEN 8 FEDERAL #3

It is proposed to stimulate the injection interval with 3000 gallons 15% HC1 at 2-3 BPM with maximum surface pressure of 1000 psi.

Exhibit No.: 21
Operator: Bass Enterprises Prod. Co.
Case No.: 11078
Date: September 1, 1994

BASS ENTERPRISES PRODUCTION CO.

SECTION XII, FORM C-108

GOLDEN 8 FEDERAL #3

BEPCO has examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground source of drinking water.

Exhibit No.: 22
Operator: Bass Enterprises Prod. Co.
Case No.: 11078
Date: September 1, 1994

P. O. BOX 1468
MONAHANS, TEXAS 79756
PH. 943-3234 OR 563-1040

Martin Water Laboratories, Inc.

709 W. INDIANA
MIDLAND, TEXAS 79701
PHONE 683-4521

RESULT OF WATER ANALYSES

TO: Mr. Steve Nuese LABORATORY NO. 894168
P. O. Box 2760, Midland, TX 79702 SAMPLE RECEIVED 8-25-94
RESULTS REPORTED 8-25-94

COMPANY Bass Enterprises Production Company LEASE Big Eddy Unit
FIELD OR POOL _____

SECTION _____ BLOCK _____ SURVEY _____ COUNTY Eddy STATE NM

SOURCE OF SAMPLE AND DATE TAKEN:

NO. 1 Raw water - taken @ windmill, 8-25-94
NO. 2 _____
NO. 3 _____
NO. 4 _____

REMARKS:

CHEMICAL AND PHYSICAL PROPERTIES				
	NO. 1	NO. 2	NO. 3	NO. 4
Specific Gravity at 80° F.	1.0047			
pH When Sampled				
pH When Received	7.08			
Bicarbonate as HCO ₃	224			
Supersaturation as CaCO ₃				
Undersaturation as CaCO ₃				
Total Hardness as CaCO ₃	2,080			
Calcium as Ca	648			
Magnesium as Mg	112			
Sodium and/or Potassium	353			
Sulfate as SO ₄	1,944			
Chloride as Cl	455			
Iron as Fe	0.04			
Barium as Ba				
Turbidity, Electric				
Color as Pt				
Total Solids, Calculated	3,736			
Temperature °F.				
Carbon Dioxide, Calculated				
Dissolved Oxygen				
Hydrogen Sulfide	0.0			
Resistivity, ohm-cm at 77° F.	2.05			
Suspended Oil				
Filtrable Solids as mg/l				
Volume Filtered, ml				
Nitrate, as N	2.7			

Results Reported As Milligrams Per Liter

Additional Determinations And Remarks The undersigned certifies the above to be true and correct to the best of his knowledge and belief.

By

Waylan C. Martin, M.A.

FAX: Terry Payne
Platts, Sparks, & Assoc.
(512 327-7069)

Affidavit of Publication

No 16449

State of New Mexico,
County of Eddy, ss.

Amy McKay
being first duly sworn, on oath says:

That she is Business Manager
of the Carlsbad Current-Argus, a newspaper published daily at the City of Carlsbad, in said county of Eddy, state of New Mexico and of general paid circulation in said county; that the same is a duly qualified newspaper under the laws of the state wherein legal notices and advertisements may be published; that the printed notice attached hereto was published in the regular and entire edition of said newspaper and not in supplement thereof on the date as follows, to wit:

August 11, 1994
August 12, 1994
August 13, 1994
_____, 19____
_____, 19____
_____, 19____

That the cost of publication is \$64.19,
and that payment thereof has been made and will
be assessed as court costs.

Amy McKay

Subscribed and sworn to before me this

16 day of August, 1994
Clark L. Farn

My commission expires 01/18/98
Notary Public

August 11, 12, 13, 1994

NOTICE OF APPLICATION FOR AUTHORIZATION TO INJECT

Bass Enterprises Production Co. has applied to the New Mexico Oil Conservation Division for a permit to inject produced water for pressure maintenance into the Golden "B" Federal #3. The proposed injection well is located 14 miles Northeast of Carlsbad, New Mexico in Section 8, T-21-S, R-29-E, Eddy County, New Mexico. The produced salt water will be injected at a subsurface depth of 4248' to 4310'. The maximum surface injection pressure is estimated at 2100 psi, maximum rate of 1000 BWPD.

Any questions concerning this application should be directed to Bass Enterprises Production Co., Attention: Mr. John Smitherman, Division Production Manager, P.O. Box 2760, Midland, Texas 79702-2760.

Interested parties must file objections or requests for hearing with the Oil Conservation Division, P.O. Box 2088, Santa Fe, New Mexico 87504-2088 within 15 days.

Exhibit No.: 24
Operator: Bass Enterprises Prod. Co.
Case No.: 11078
Date: September 1, 1994

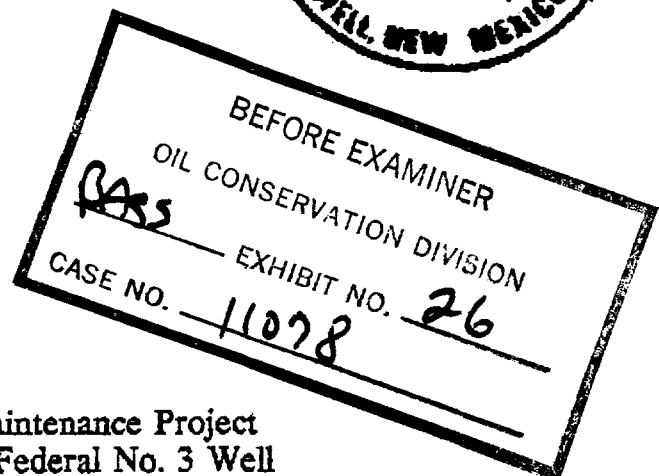
BASS ENTERPRISES PRODUCTION CO.

201 MAIN ST.
FORT WORTH, TEXAS 76102-3131
817/390-8400

August 29, 1994

FEDERAL EXPRESS

Mr. Armando Lopez
United States Department of Interior
Bureau of Land Management
Roswell District Office
1717 W. 2nd
Roswell, New Mexico 88201-2019



Re: Pressure Maintenance Project
Golden "8" Federal No. 3 Well
Section 8, T21S-R29E
Eddy County, New Mexico

Dear Mr. Lopez:

Please reference our telephone conversation of this date whereby you were advised that Bass plans to commence a pressure maintenance project to improve production from wells on Federal leases located in the Big Eddy Unit. As we discussed, the subject project consists of the conversion of the referenced well to a water injection well which will have a positive effect on the production from seven (7) existing producers located in the immediate area on three (3) Federal leases. The project area consists of the following:

NW/4 Section 8, T21S-R29E (USA NM - 0505)
SW/4 Section 8, T21S-R29E (USA NM - 02946)
SE/4 Section 8 & NW/4 Section 17, T21S-R29E (USA NM 0509)

The above leases are located within the outline of the Big Eddy Unit; however, the production currently being obtained is from the Delaware formation which is located above the Big Eddy unitized depths. For purposes of our application to proceed with the above

August 27, 1994
Page 2

operation, please indicate your approval of Bass' proposed pressure maintenance project. Thank you very much and should you have any questions in the above regard, please advise.

Very truly yours,


J. Wayne Bailey

JWB:ca

BUREAU OF LAND MANAGEMENT

By: Jerry L. Ferguson

Date: August 30, 1994