



STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION

2040 S. PACHECO
SANTA FE, NEW MEXICO 87505
(505) 827-7131

March 31, 1995

· Bass Enterprises Production Company
P.O. Box 2760
Midland, Texas 79702

Attn: Mr. John R. Smitherman

Re: Reinstatement of Division Order SWD-517

Dear Mr. Smitherman:

Reference is made to your recent request to reinstate the above referenced Division Order. SWD-517, issued May 27, 1993, authorized utilization of the Big Eddy Unit Well No.84 as a salt water disposal well. My staff has reviewed your request and it appearing that all original parameters of the application remain unchanged, an extension of Division Order SWD-517 to April 15, 1996, is hereby granted.

Sincerely,

A handwritten signature in black ink, appearing to read "William J. LeMay".

William J. LeMay
Director

WJL/BES

cc: Oil Conservation Division - Artesia
File - SWD-517

OIL CONSERVATION DIVISION
DANIEL S. NUTTER
REGISTERED PETROLEUM ENGINEER

PETROLEUM CONSULTATION AND STATE AND FEDERAL REGULATORY SERVICES
105 EAST ALICANTE
SANTA FE, NEW MEXICO 87501

PHONE (505) 982-0757

March 31, 1995

Mr. William J. LeMay
Director
Oil Conservation Division
Energy and Minerals Department
2040 South Pacheco
Santa Fe, New Mexico 87505

Re: Reinstatement of Administrative
Order SWD 517

Dear Mr. LeMay:

The Oil Conservation Division on 5/27/1993 approved Administrative Order SWD-517 authorizing the conversion to salt water disposal of Bass Enterprises Production Company's Big Eddy Unit Well No. 84, a dry and abandoned deep (12,725') gas test located 1980 feet from the North line and 1980 feet from the East line of Section 18, Township 21 South, Range 29 East, NMPM, Eddy County, New Mexico. This order contained an expiration date of one year subsequent to the date of approval if the subject well was not converted to salt water disposal by such time.

Bass now wishes to convert the subject well to salt water disposal but inasmuch as Bass did not convert it within the timeframe specified by said order, and the order has expired, we are now requesting reinstatement of the Order.

All conditions with respect to the various parameters which made the well eligible for administrative approval in 1993 are still the same, with the exception that a few additional wells have been completed in the Golden Lane-Delaware Oil Pool which is located approximately one mile northeast of the proposed disposal well. All wells in the Golden Lane

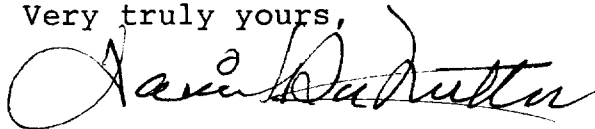
RECEIVED
MAY 1 1995
PM 8 52

Wm. J. LeMay
3/31/95
Pg. 2

Pool are within a two-mile radius of the disposal well but are clearly outside the critical one-half mile radius "Area of Review". The Golden Lane wells are all depicted on the "Individual Well Data" sheet which is attached hereto. Also attached are a copy of the originally submitted plat of the area and a new plat showing all currently completed wells.

It is respectfully requested that Administrative Order SWD-517 be reinstated as soon as possible.

Very truly yours,

A handwritten signature in dark ink, appearing to read "Daniel S. Nutter", written in a cursive style.

Daniel S. Nutter, P.E., and
Agent, Bass Enterprises Production Co.

DSN:ms

cc John R. Smitherman
Bass Enterprises Production Co.
P.O.Box 2760
Midland, TX 79702

BASS ENTERPRISES PRODUCTION CO.

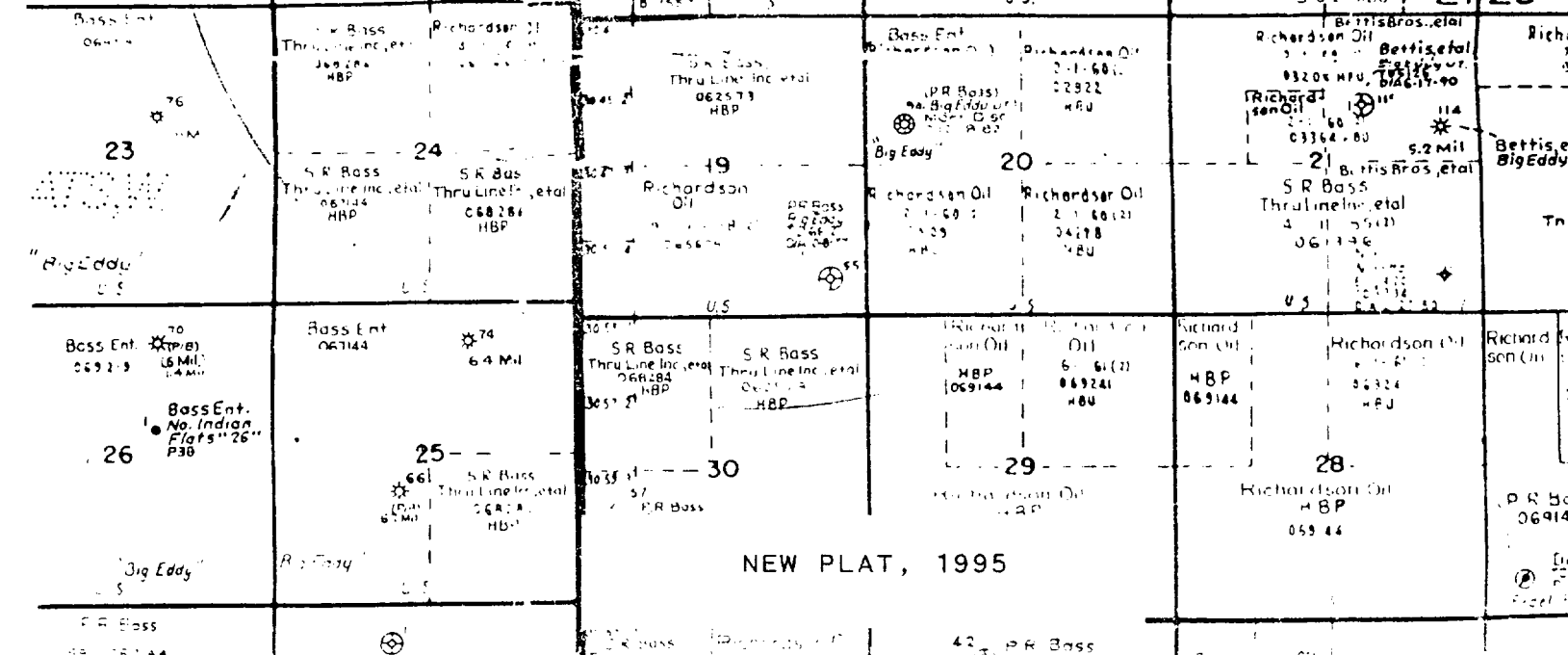
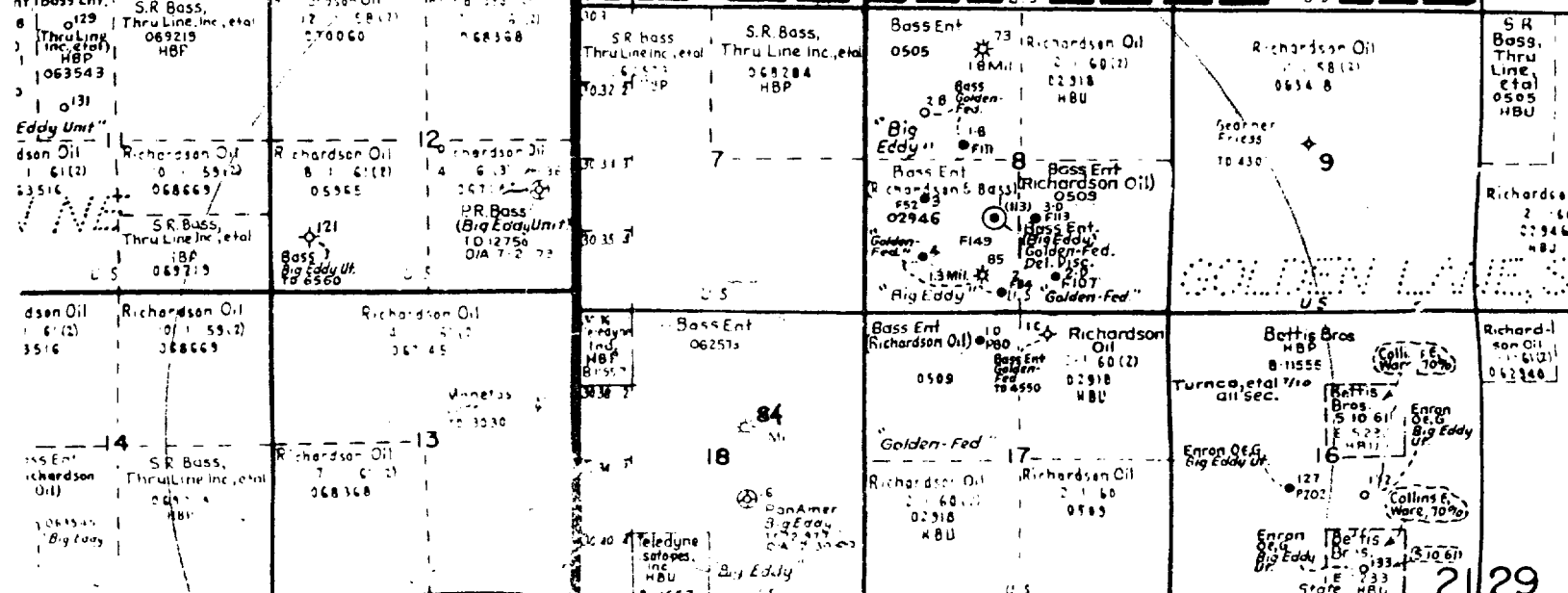
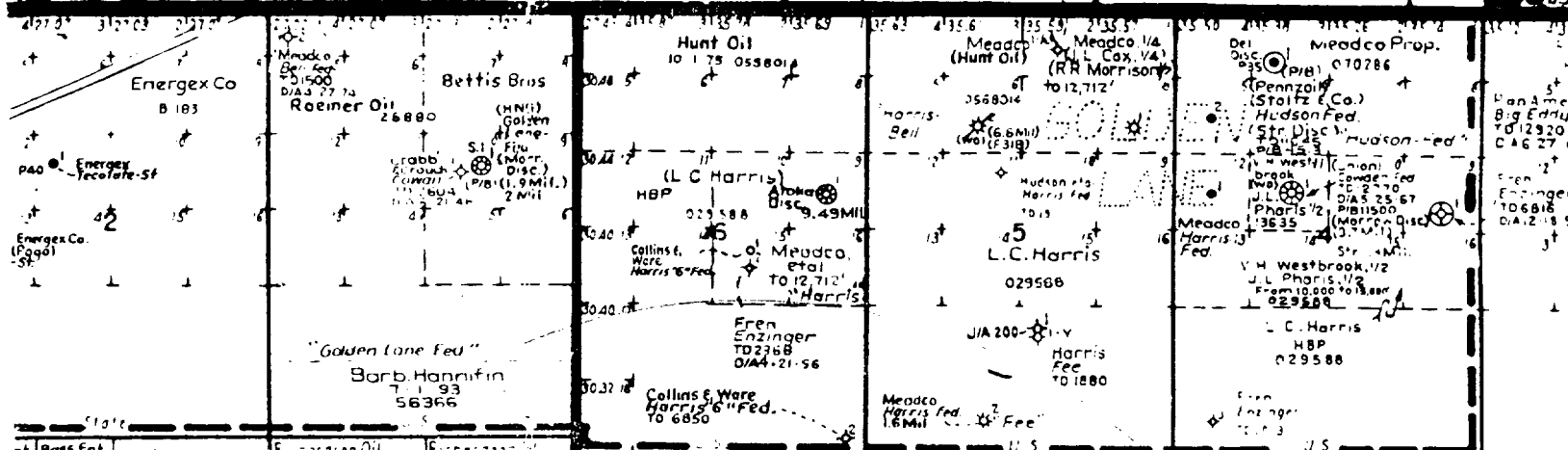
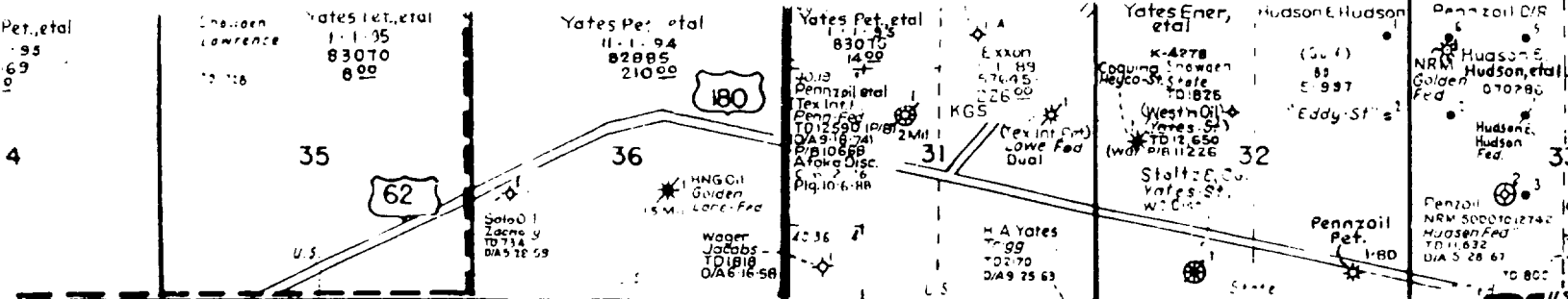
Application for Reinstatement
Administrative Order No. SWD-517

INDIVIDUAL DATA SHEET, GOLDEN LANE-DELAWARE POOL
SECTION VI FORM C-108

3/31/95

BIG EDDY UNIT WELL NO. 84

OPERATOR WELL NAME	LOCATION	SPUD	TD	COMPLETION	SURFACE		CEMENT	INTERMEDIATE		CEMENT	PRODUCTION		CEMENT	PERFS	TYPE
					CASING			CASING			CASING				
BEPGO Big Eddy #85	650' FSL & 1980' FWL SECTION 8, T21S, R29E	5/28/81	12,800'	8/26/81	11-3/4" @ 755'		475 sk	8-5/8" @ 3300'		2150 sk	5-1/2" @ 12,800'		725 sk	12,365-12,516'	Gas
BEPGO Golden 8 Federal #1	1650' FSL & 2180' FWL SECTION 8, T21S, R29E	3/3/92	6,800'	5/18/92	8-5/8" @ 810'		480 sk	7" @ 3165'		800 sk	4-1/2" @ 6800'		400 sk	4,238-4,262'	Oil
BEPGO Golden 8 Federal #2	2310' FWL & 330' FSL SECTION 8, T21S, R29E	7/9/92	4,506'	10/28/92	11-3/4" @ 695'		500 sk	8-5/8" @ 2982'		1600 sk	5-1/2" @ 4506'		315 sk	4,195-4,218'	Oil
BEPGO Golden 8 Federal #4	990' FSL & 990' FWL SECTION 8, T21S, R29E	1/15/93	4,573'	2/9/93	11-3/4" @ 900'		125 sk	8-5/8" @ 3020'		1200 sk	5-1/2" @ 4573'		350 sk	4,214-4,228'	Oil
BEPGO Golden 8 Federal #1	2310' FWL & 1650' FWL SECTION 8, T21S, R29E	9/9/92	4,514'	2/16/93	11-3/4" @ 821'		500 sk	5-5/8" @ 1570' 7" @ 3052'		600 sk 375 sk	4-1/2" @ 4515'		350 sk	4,260-4,274'	Oil
BEPGO Golden D Federal #2	650' FSL & 1980' FWL SECTION 8, T21S, R29E	5/4/93	4,550'	6/7/93	11-3/4" @ 896'		510 sk	8-5/8" @ 3000'		1225 sk	5-1/2" @ 4550'		325 sk	4,203-4,218'	Oil
BEPGO Golden D Federal #3	2310' FEL & 1650' FSL Section 8, T21S, R29E	10/4/93	4,525'	11/8/93	11-3/4" @ 1250'		880 sk	-		-	5-1/2" @ 4525'		1760 sk	4,225-4,259'	Oil
BEPGO Golden D Federal #1	495' FWL & 1980' FWL Section 17 T21S, R29E	6/14/93	4550'	8/3/93	9-5/8" @ 665'		400 sk	-		-	5-1/2" @ 4550'		1370 sk	4,208-4,218' 4,220-4,224'	Oil
BEPGO Golden 8 Federal #3	1980' FSL & 390' FWL Section 9 T21S, R29E	5/16/93	4575'	6/4/93	11-3/4 @ 1240		750 sk	-		-	5-1/2 @ 4575'		1500 sk	4,246-4,310'	PM Injection



NEW PLAT, 1995

APPLICATION FOR AUTHORIZATION TO INJECT

- I. Purpose: ☐ Secondary Recovery ☐ Pressure Maintenance ☒ Disposal ☐ Storage
Application qualifies for administrative approval? ☒ yes ☐ no
- II. Operator: Bass Enterprises Production Co.
Address: P. O. Box 2760 Midland, Texas 79702
Contact party: Keith Bucy Phone: (915) 683-2277
- III. Well data: Complete the data required on the reverse side of this form for each well proposed for injection. Additional sheets may be attached if necessary.
- IV. Is this an expansion of an existing project? ☐ yes ☒ no
If yes, give the Division order number authorizing the project _____.
- V. Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.
- * VI. Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.
- VII. Attach data on the proposed operation, including:
1. Proposed average and maximum daily rate and volume of fluids to be injected;
 2. Whether the system is open or closed;
 3. Proposed average and maximum injection pressure;
 4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and
 5. If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).
- * VIII. Attach appropriate geological data on the injection zone including appropriate lithologic detail, geological name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such source known to be immediately underlying the injection interval.
- IX. Describe the proposed stimulation program, if any.
- * X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division they need not be resubmitted.)
- * XI. Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.
- XII. Applicants for disposal wells must make an affirmative statement that they have 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.
- XIII. Applicants must complete the "Proof of Notice" section on the reverse side of this form.
- XIV. Certification

I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.

Name: Bryan Mullican

Title: Engineering Assistant

Signature: Bryan E. Mullican

Date: 4-22-93

- * If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be duplicated and resubmitted. Please show the date and circumstance of the earlier submittal.

RELEASE 5.25.93

BEFORE THE NEW MEXICO OIL CONSERVATION DIVISION

BASS ENTERPRISES PRODUCTION CO.

FOR WATER DISPOSAL

the

BIG EDDY UNIT #84

LOCATED 1980' FNL & 1980' FEL SECTION 18, T21S - R29E

Eddy County, New Mexico

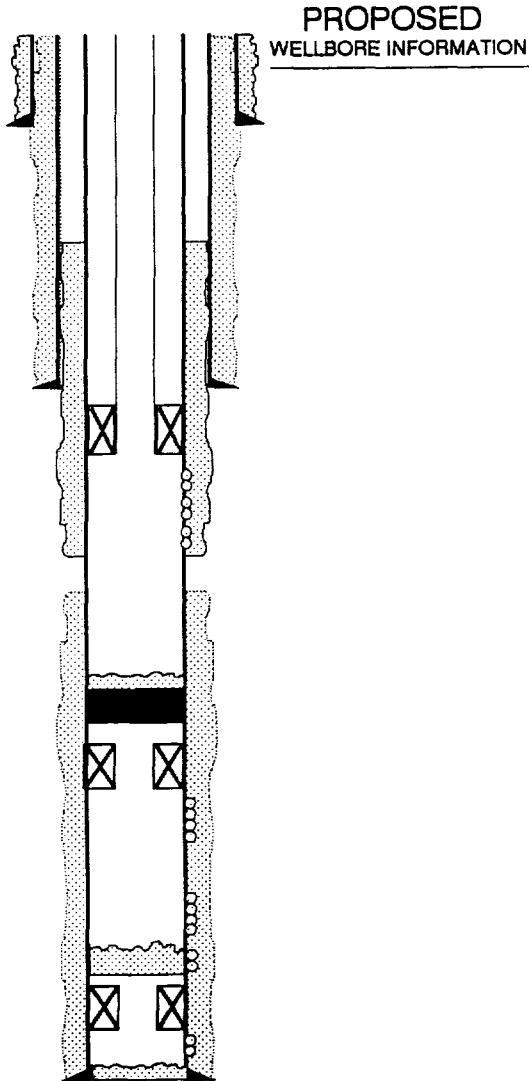
T A B L E O F C O N T E N T S

Item	Attachment
Application.....	Form C-108
Injection Well Data Sheet.....	C-108 III
Map of Area Showing Well and Lease Ownership.....	C-108 V
Tabulation of Well Data.....	C-108 VI (a)
Schematic Drawing of Plugged and Abandoned Well.....	C-108 VI (b)
Scout Card of Plugged and Abandoned Well.....	C-108 VI (c)
Data Sheet on Proposed Operations.....	C-108 VII (a)
Produced Formation Water Analysis.....	C-108 VII (b)
Disposal Zone Water Analysis.....	C-108 VII (b)
Geological Data Sheet.....	C-108 VIII C-108 VIII (a)
Disposal Well Stimulation Program.....	C-108 IX
Logging and Test Data.....	C-108 X
Fresh Water Discussion.....	C-108 XI
Affirmative Statement.....	C-108 XII
Proof of Notice to Offset Operators.....	C-108 XIV (a)
Proof of Notice by Publication.....	C-108 XIV (b)

INJECTION WELL DATA SHEET

Bass Enterprises Production Co. Operator		Big Eddy Unit Lease		
84 Well No.	1980' FNL & 1980' FEL Footage Location	18 Section	21S Township	29E Range

SCHEMATIC
(proposed)



TABULAR DATA

Surface Casing
Size 11-3/4 " Cemented with 650 sx.
TOC Surface feet determined by circulation
Hole Size 15"

Intermediate Casing
Size 8-5/8 " Cemented with 3600 sx.
TOC Surface feet determined by circulation
Hole Size 11"

Long String
Size 5-1/2 " Cemented with 700 sx.
TOC 11,691' feet determined by calc.
Hole Size 7-7/8"
Total Depth 12,725'
Injection Interval
4086 feet to 4186 feet
(perforated or open-hole, indicate which)

Tubing size 2-3/8" lined with TK-69 (material) set in a
Baker AD-1 packer at 4030 feet (or describe any other casing-tubing seal).
(Brand and Model)

Other Data

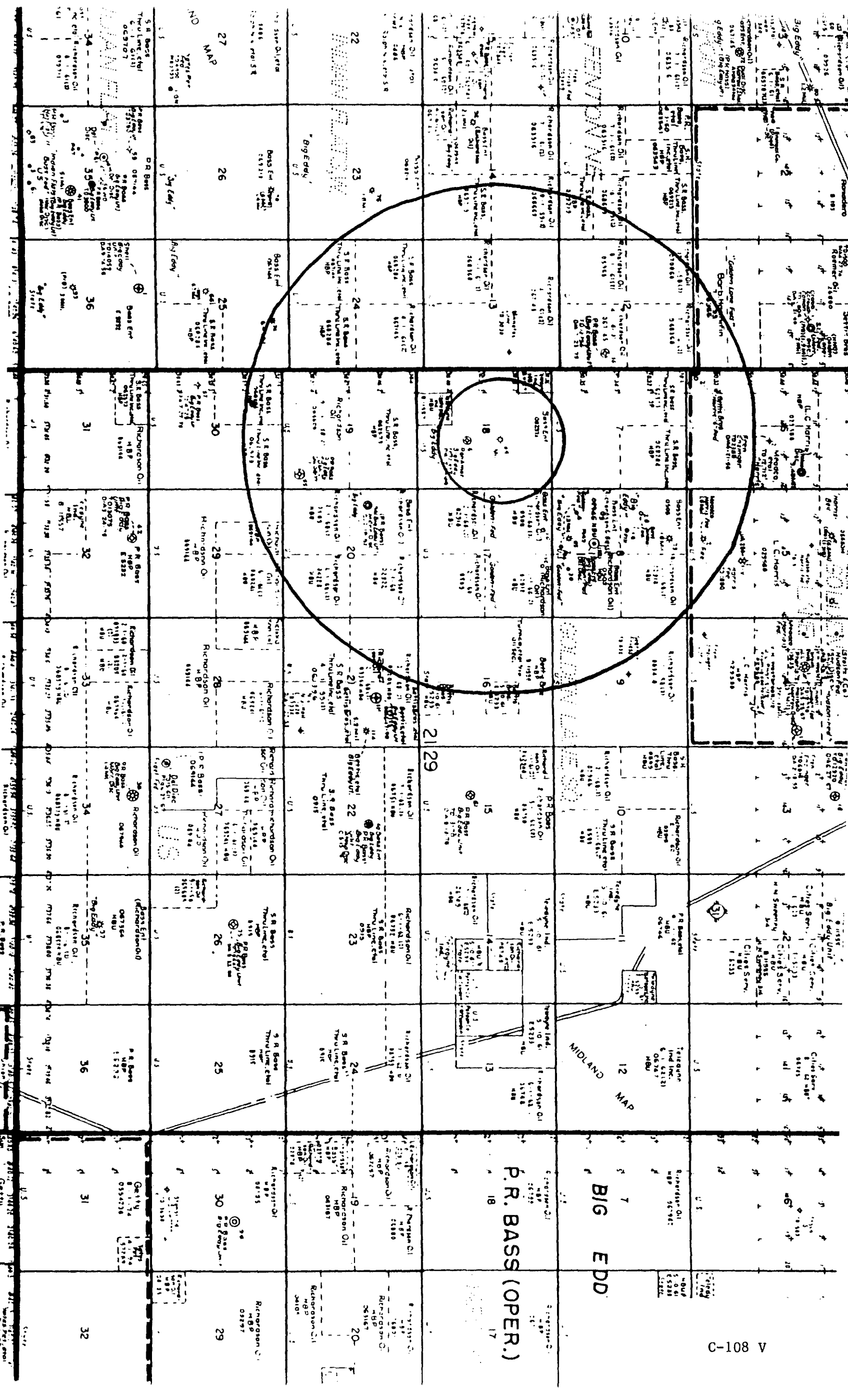
1. Name of the injection formation Delaware Mountain Group - Cherry Canyon Formation

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

3. Is this a new well drilled for injection? Yes ☒ No
If no, for what purpose was the well originally drilled? Gas Production

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail
(sacks of cement or bridge plug(s) used) Yes
Perfs: 12,320-12,423'; 11,967-11,972; 10,134-10,149'; 10,041-10,044'
Plugs: 50 sx cement @ 11,691'; proposed CIBP @ 9910' capped w/ 35 ft. cement.

5. Give the depth to and name of any overlying and or underlying oil or gas zones (pools) in this area. Golden Lane, South Delaware (oil) Cherry Canyon production 4200-4300'
Golden Lane, Wolfcamp (gas) Wolfcamp production 10,000-10,500'
Golden Lane, Strawn (gas) Strawn production 11,000-11,500'
Golden Lane, Atoka (gas) Atoka production 11,500-12,800'
Golden Lane, Morrow (gas) Morrow production 12,000-12,700'



FORM C-108 VI

Data on all wells of public record with the area of review.

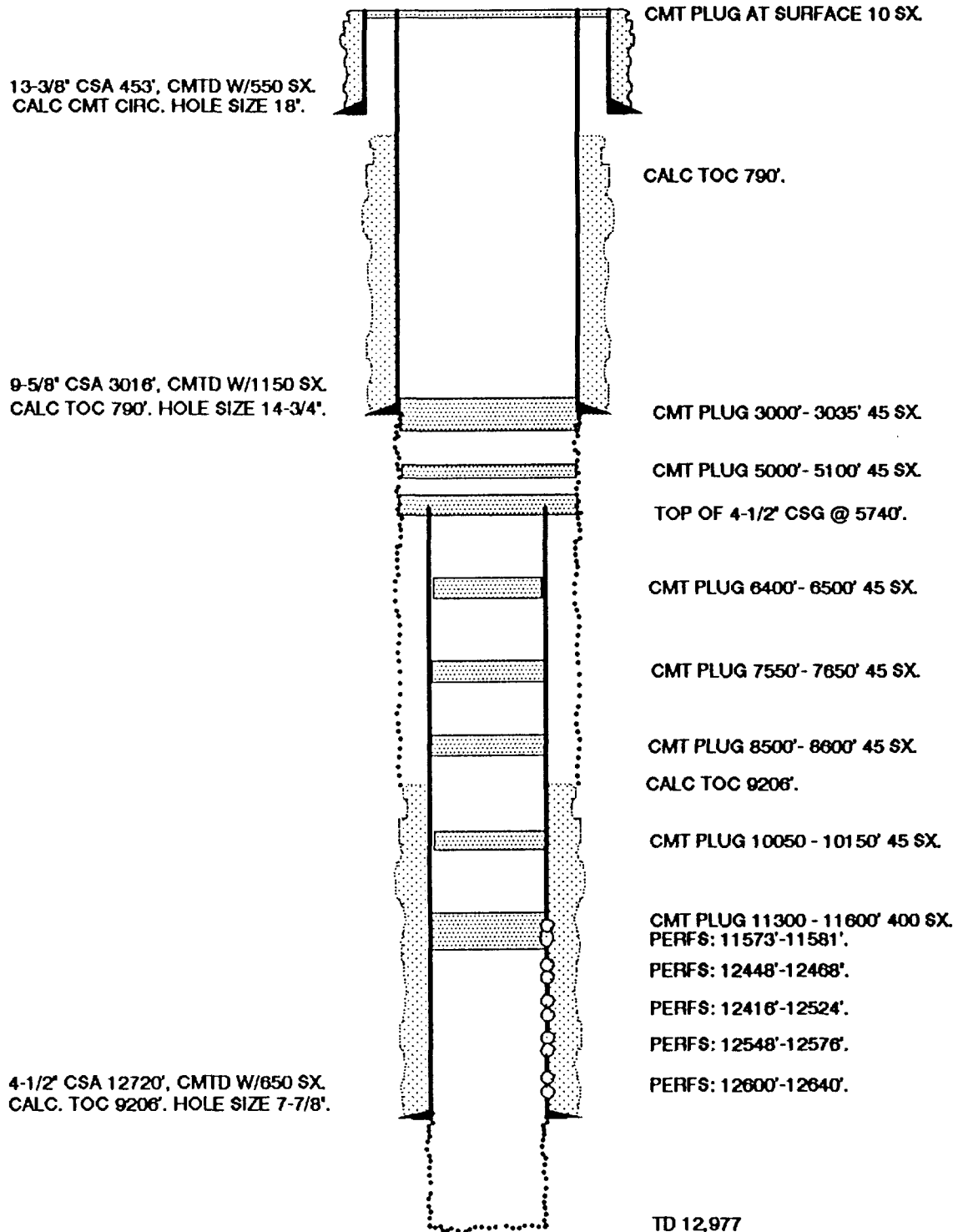
Operator Lease Name Well Number	Penetrate Proposed Injection Zone	Well Type	Construction	Date Drilled	Location	Depth & Current Status	Record of Completion	Perforations
Bass Enterprises Production Co Big Eddy Unit #16	Yes	Wildcat	See Attachment VI-B	12-30-66	Sec. 18 T-21-S R-29-E 1980' FSL & 1980' FEL Unit: Letter J	12,977' TD P & A	See Attachment VI-C Scout Ticket	11,573-11,581' 12,448-12,468' 12,416-12,524' 12,548-12,576' 12,600-12,640'

BIG EDDY UNIT NO. 16

LOCATION: 1980'FSL & 1980'FEL, SEC.18, T21S, R29E.
API NO: 30-015-10867
ELEVATIONS: 3309' KB
SPUD DATE: 9/14/66 COMP.DATE: 12/30/66

PAN AMERICAN PET. CORP.
GOLDEN LANE
EDDY COUNTY, N.M.
DATE: 4/14/93

WELLBORE INFORMATION



Vell: PAN AMERICAN PET. CORP. #16 Big Eddy Unit Result: DGA
oc'n: E/part of cnty; 12 mi NE/Carlsbad; Sec 18-21S-29E, 8 mi SW/Big Eddy-Strawn Fld,
12 mi NE/Carlsbad, 2-1/2 mi NE/14,059' failure, 1980' FSGELS of Sec 18-21S-29E.

Soud: 9-14-66; Comp:12-30-66; Elev: 3309' KB; TD: 12,977'

Casing: 13-3/8" 453'/550 sx, 9-5/8" 3016'/1150 sx, 4-1/2" 12,720'/650 sx.

Comp Info: DST (Dela) 4892-5064', op 1 hr, very wk blo throu test, rec 200' mud, 200' SW, NS, ISIP 2048#/30 mins, FP 58-145#, FSIP 1694#/30 mins; DST (L/Dela) 6350-6464', op 2 hrs, fair blo 10 min, wk blo for remainder of test, rec 5' free oil, 60' GCM, 90' DM & 90' SWCM, ISIP 291#/1 hr, FP 102-102#, FSIP 262#/1 hr; DST (Wolfc) 10,060-141', op 3 hrs, GTS 6 mins @ 350,000 CFPD, dec to 262,000 CFPD, rev out 1550' oil, 120' GCM, FP 216-346#, ISIP 5131#/1 hr, FSIP 4210#/1-1/2 hrs, Crd 11,300-350' rec 50' dnse shly li, DST 12,235-411', op 2 hrs, rec 60' mud, FP 987#, ISIP 1456#/1 hr FSIP 1841#/1 hr, DST 12,677-726', op 2 hrs, & 5 mins, used 1500' NB, rec 5' mud, FP 800#, ISIP 1483#/1 hr, SP-DST 12,559-720', op 1 hr & 38 mins, pkrs failed, rec 620' mud, FP 965#, ISIP 5056#/1 hr, no FSIP, Perf 12,448-468', 12,516-524', 12,548-576', 12,600-640', A/2,000 gals, F/350,000 CFCPD, Frac w/20,000 gals, F/462,000 CFCPD, TP 25#, Perf (Atoka) 11,573-581', F/550,000 CFCPD 24/64" ch, SITP 3650#, F/650,000 CFCPD, 22/64" ch, TP 125#. C/Big West Drlg. Co.

Top: (EL) Bone Spring 6540', 1st Bone Spring Sd 7570', 2nd Bone Spring Sd 8353', 3rd Bone Spring Sd 9405', Wolfc sh 10,296', Strawn 11,147', Atoka 11,528', Barnett 12,850'.

Geo. R. Rusk
OIL REPORTS

Date: 3-22-67

Card No.: 10 NM ss

Form 9-331
(Rev. 10-66)UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEYFIELD INSTRUCTIONS
For the use of the
Geological Survey

SUNDRY NOTICES AND REPORTS ON WELLS

(Use and use this form for purposes in drill or in design or plug back to a different purpose.
See the APPLICATION FOR PERMIT for such purposes.)

1. WELL ☐ OIL WELL ☒ OTHER <u>DRY HOLE</u>	7. FIELD ADDRESS ONLY
2. NAME OF OPERATOR PAN AMERICAN PETROLEUM CORPORATION	8. BIGEDDY UNIT FEDERAL
3. ADDRESS OF OPERATOR BOX 68, MORRIS, N. M. 88240	9. WELL NO.
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also above 17 below) At surface	10. IN EACH AND EVERY 100 YARDS WILDCAT
11. 1980 FSL X 1980 FEL, Sec. 18 (Unit J, NW 1/4 Sec 4)	12. 18-21-29
13. PERMIT NO.	14. 3309 R. Q. B.
15. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data	16. EDDY N.M.

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF	☐	WATER SHUT-OFF	☐
PRODUCTION TEST	☐	PRODUCTION TREATMENT	☐
ABANDON OR ACIDISE	☐	ABANDON OR ACIDISING	☐
REPAIR WELL	☐	(Other)	☐
(Other)	☐	(Other)	☐
DRILL OR RE-DRILL	☐	REPAIRING WELL	☐
MULTIPLE COMPLETES	☐	ALTERING CASING	☐
ABANDON	☐	REPAIRMENT	☒
CHANGE PLANS	☐		

17. PROVIDE COMMENTS ON COMPLETION OPERATIONS (If only state all pertinent details, and give pertinent dates, including estimated date of completion or recompletion report and log form.)
Proposed work: If well is directionally drilled, give subsurface location and measured and true vertical depths for all depths and well path.

In accordance w/ Form 9-331 dated 1-4-66,
well was plugged and abandoned as follows:
Cement plugs - 4004. 11600-11300; 4554 (10150-050;
8600-8500; 7650-7550; 6500-6400; Cut and
pulled 4 1/2 casing from 5740; spotted 45 44
in and out of 4 1/2 slab @ 5740; 45 44 500-5000;
45 44 in & out of slab @ 3016; 10 44 at
surface w/ P.A. marker marked.

Made final cleanup and restored
ground to contour!

I hereby certify that the foregoing is true and correct

SIGNED

TITLE

AREA SUPERINTENDENT

DATE

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

COMMISSIONER OF THE GEOLOGICAL SURVEY

4- USGS-ART
1- NSW
1- SUSP
1- DRY
1- PERRY BASS
1- STATE LAND
1- NMOCC-SS
1- H.A.

APPROVED
JUN 2 1967
R. L. GLENN
ARTIST, NEW MEXICO

See Instructions on Reverse Side

C-108 VI (c-1)

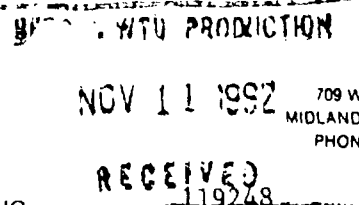
Data Sheet
Section VII (A), Form C-108

1. Proposed rates of injection
 - a. Average daily rate of injection: 1000 bbls
 - b. Maximum daily rate of injection: 1500 bbls
2. Type of system
System will be closed
3. Proposed injection pressures
Average: 600
Maximum: 820
4. See Attached (C-108 VII (B))
5. See Attached (C-108 VII (B))

P. O. BOX 1468
MONAHAN, TEXAS 79756
PH 943-3234 OR 583-1040

Martin Water Laboratories, Inc.

RESULT OF WATER ANALYSES



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

TO: Mr. Greg Spencer
P. O. Box 2760, Midland, TX 79702

LABORATORY NO. 119248
SAMPLE RECEIVED 11-5-92
RESULTS REPORTED 11-10-92

COMPANY Bass Enterprises Production Company LEASE Golden "B" Federal #1

FIELD OR POOL Golden Lane (Delaware)

SECTION 8 BLOCK SURVEY T-21S&R-29E COUNTY Eddy STATE NM

SOURCE OF SAMPLE AND DATE TAKEN:

NO. 1 Recovered water - taken from Golden "B" Federal #1. 10-23-92

NO. 2

NO. 3

NO. 4

REMARKS: Delaware

CHEMICAL AND PHYSICAL PROPERTIES				
	NO. 1	NO. 2	NO. 3	NO. 4
Specific Gravity at 60° F	1.1206			
pH When Sampled				
pH When Received	7.38			
Bicarbonate as HCO ₃	427			
Supersaturation as CaCO ₃				
Undersaturation as CaCO ₃				
Total Hardness as CaCO ₃	41,250			
Calcium as Ca	13,400			
Magnesium as Mg	1,883			
Sodium and/or Potassium	52,625			
Sulfate as SO ₄	1,048			
Chloride as Cl	109,369			
Iron as Fe	215			
Barium as Ba				
Turbidity, Electric				
Color as Pt				
Total Solids, Calculated	178,753			
Temperature °F				
Carbon Dioxide, Calculated				
Dissolved Oxygen				
Hydrogen Sulfide	212			
Resistivity, ohm-cm at 77° F	0.062			
Suspended Oil				
Filtrable Solids as mg/l				
Volume Filtered, ml				
Thiocyanate, as SCN	0.0			

Results Reported As Milligrams Per Liter

Additional Determinations And Remarks In comparing the above with the water from Golden "B" Federal #2 reported on laboratory #892114 (8-13-92), we find this water to be very similar. We also note in comparing with our records in the area that the water is indicated to be predominantly natural Delaware.

FILE
Schlumberger

COMPENSATED NEUTRON-
FORMATION DENSITY

COUNTY EDDY
FIELD GOLDEN LANE
LOCATION
WELL BIG EDDY UNIT #84
COMPANY PERRY R. BASS ENTERPRISES

COMPANY PERRY R. BASS ENTERPRISES	
PRODUCTION COMPANY	
WELL	BIG EDDY UNIT #84
FIELD	GOLDEN LANE
COUNTY	EDDY
STATE	NEW MEXICO

LOCATION			
1980' FNL & 1980' FEL			
API SERIAL NO.	SEC.	TWP.	RANGE
18	21	S	29

Other Services:
DLL/MSFL

Permanent Datum: G.L. 3309.9
Log Measured From: P.V.B. 18.5 Ft. Above Perm. Datum
Drilling Measured From: R.K.B. Elev.: 3308.2
Elev.: 3328.4
D.F. 3309.9
G.L. 3308.2

Date	1-1-82
Run No.	10NE
Depth-Driller	12725
Depth-Logger	12727
Btm. Log Interval	12724
Top Log Interval	CSC
Casing-Driller	8 5/8 @ 3025
Casing-Logger	3021
Bit Size	7 7/8
Type Fluid in Hole	XC POLYMER/DRISPAC/BRINE
Dens. Visc.	10.9 36
pH	11 6 ml
Source of Sample	PIT
Rm. @ Meas. Temp.	.050 @ 60 °F
Rmf. @ Meas. Temp.	@ °F
Kmc. @ Meas. Temp.	@ °F
Source: Rmf. Rmc	@ °F
Rm. @ BHT	.052 @ 184 °F
Circulation Stopped	1000
Logger on Bottom	1000
Max. Rec. Temp.	185 °F
Equip. Location	8215 RSWI

The well name, location and borehole reference data were furnished by the customer.

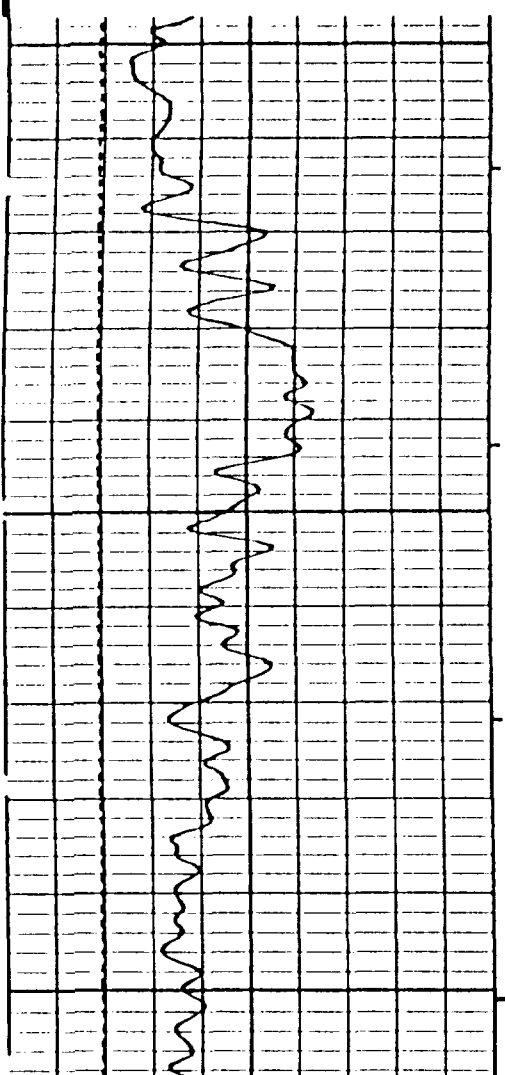
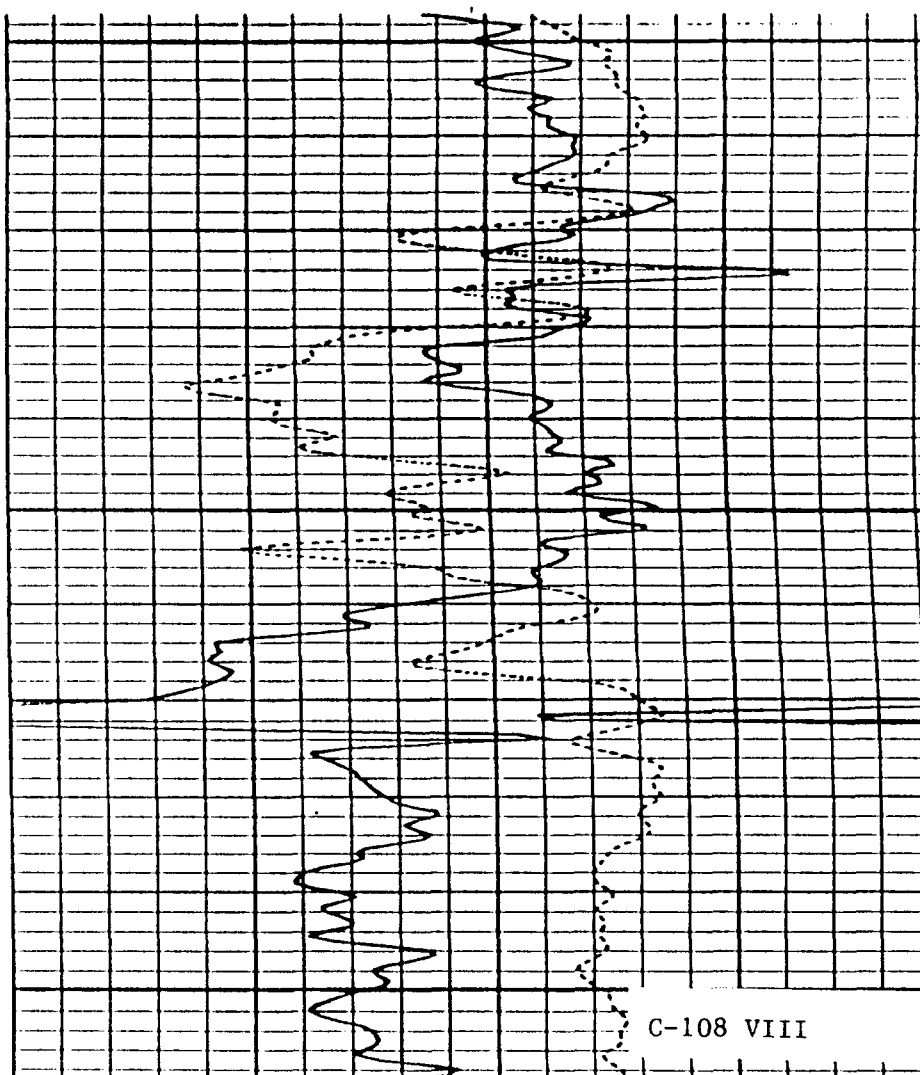
GR (GAPI)	100.0	200.0	11000.	1000
CALI (IN)	6.000	16.00	DPHI ()	-0.10
GR (GAPI)	0.0	100.0	NPHI ()	-0.10
			0.3000	
			0.3000	

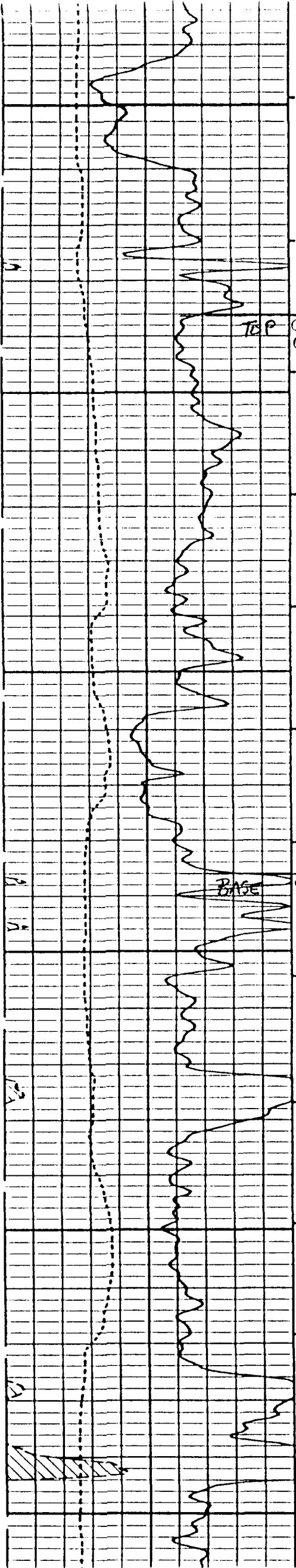
FILE

5

2900

3000





4086
(-758)

TOP

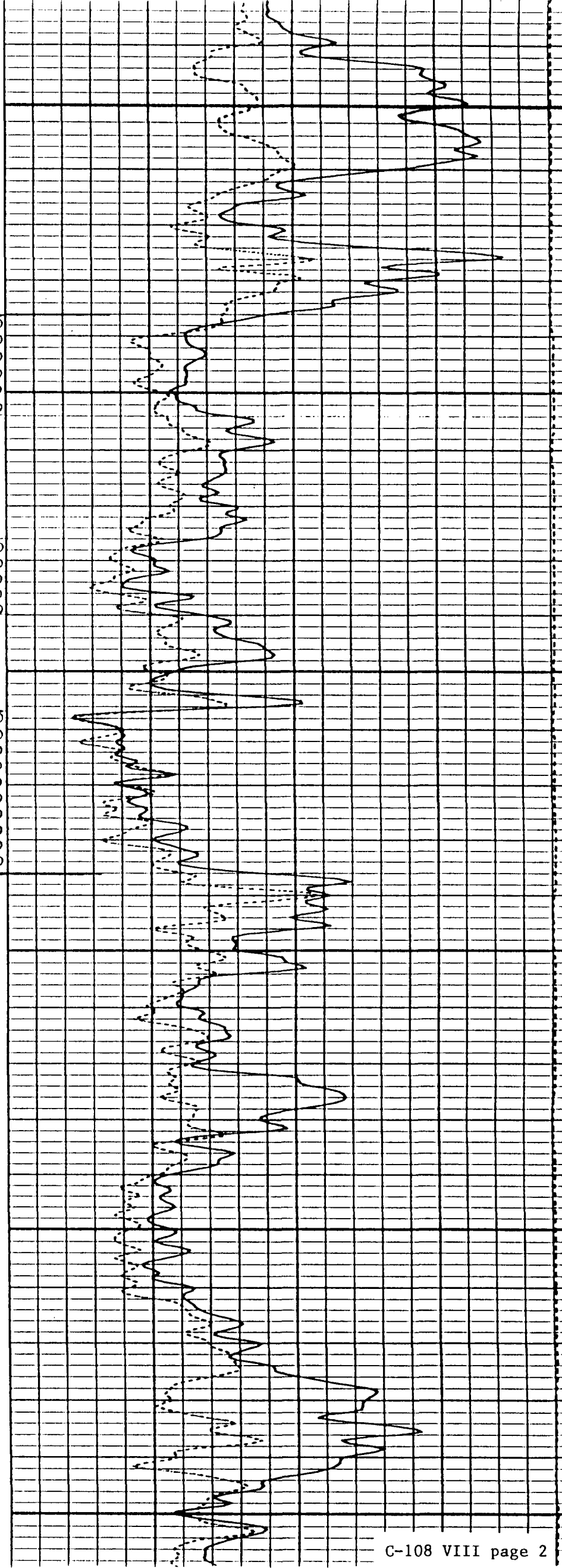
CERRY
CANYON
"49'ER"
4100

4186
(-858)

BASE

CERRY
CANYON
"49'ER"
4200

4300



Affidavit of Publication

State of New Mexico,
County of Eddy, ss.

E. C. Cantwell, being first duly sworn,
on oath says:

That he is publisher 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:

MAY 3, 19 93
MAY 5, 19 93
_____, 19 ____
_____, 19 ____

that the cost of publication is \$ 45.66,
and that payment thereof has been made
and will be assessed as court costs.

E C Cantwell

Subscribed and sworn to before me this

5 day of MAY, 19 93

Rinda S. Martin

My commission expires 7/22/96

Notary Public

May 3, 5, 1993

This letter shall serve Notice of Application for Oil and Gas Waste Disposal Well Permit. Bass Enterprises Production Company has applied to the Oil Conservation Division of New Mexico for a permit to dispose of produced salt water or other oil and gas waste by well injection into a porous formation not productive of oil or gas.

The applicant proposes to dispose of oil and gas waste into the Upper Cherry Canyon, Big Eddy Unit #84. The proposed disposal well is located 13 miles east north east of Carlsbad, New Mexico in the Golden Lane (Delaware) in Eddy County, New Mexico. The waste water will be injected into strata in the subsurface depth interval from 4086' to 4186'.

Requests for a public hearing from persons who can show they are adversely affected, or requests for further information concerning any aspect of the application should be submitted in writing, within fifteen days of publication to the Oil Conservation Division, P.O. Box 1148, Santa Fe, New Mexico, Telephone 605/827-2538.

Section VIII (a) Form C-108

Delaware Mountain Group - Cherry Canyon formation.

100% Sandstone Light gray to clear, fine to very fine grained, moderate to loosely consolidated with calcareous and clay matrix.

Thickness of 100 feet with repeated bedding of laminated sandstones grading to siltstones throughout total interval.

Depth of interval from 4086' (-758) to 4186' (-858).

Data Sheet
Section IX - Form C-108

Proposed Stimulation Program:

Interval will be perforated and treated with approximately 5000 gallons 7-1/2% NEFE acid. If necessary to establish injection, a small fracture treatment will be pumped

Section X - Form C-108

All logging and test data has been previously submitted.

Section XI - Form C-108

There are no fresh water wells within one mile of the proposed disposal site.

Affirmative Statement
Section XII - Form C-108

Applicant hereby affirms that he has examined the available geologic and engineering data and finds no evidence of open faults or other hydrologic connection between the disposal zone and any underground source of drinking water.