

## APPLICATION FOR AUTHORIZATION TO INJECT

- I. PURPOSE : X Secondary Recovery \_\_\_\_\_ Pressure Maintenance \_\_\_\_\_ Disposal \_\_\_\_\_ Storage \_\_\_\_\_  
Application qualifies for administrative approval? \_\_\_\_\_ Yes \_\_\_\_\_ No
- II. OPERATOR: BOPCO, L.P.
- ADDRESS : P O Box 2760 Midland Tx 79702
- CONTACT PARTY : Sandra J. Belt ext. 149 PHONE : (432)683-2277
- III. WELL DATA: Complete the data required on the reverse side of this form for each well processed for injection.  
Additional sheets may be attached if necessary.
- IV. Is this an expansion of an existing project? \_\_\_\_\_ Yes X 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:
- Oil Conservation Division  
Case No. 14552  
Exhibit No. 12
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 sources 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: Sandra J. Belt ext. 149 TITLE: Sr. Regulatory Clerk
- SIGNATURE: Sandra J. Belt DATE: 05/18/2010
- E-MAIL ADDRESS: sjbelt@basspet.com
- \* If the information required under Sections VI, VII, X, and XI above has been previously submitted, it need not be resubmitted. Please show the date and circumstance of the earlier submittal:

### III. WELL DATA

- A. The following well data must be submitted for each injection well covered by this application. The data must be both in tabular and schematic form and shall include:

- (1) Lease name; Well No.; Location by Section, Township, and Range; and footage location within the section.
- (2) Each casing string used with its size, setting depth, sacks of cement used, hole size, top of cement, and how such top was determined.
- (3) A description of the tubing to be used including its size, lining material, and setting depth.
- (4) The name, model, and setting depth of the packer used or a description of any other seal system or assembly used.

Division District Offices have supplies of Well Data Sheets which may be used or which may be used as models for this purpose. Applicants for several identical wells may submit a "typical data sheet" rather than submitting the data for each well.

- B. The following must be submitted for each injection well covered by this application. All items must be addressed for the initial well. Responses for additional wells need be shown only when different. Information shown on schematics need not be repeated.

- (1) The name of the injection formation and, if applicable, the field or pool name.
- (2) The injection interval and whether it is perforated or open-hole.
- (3) State if the well was drilled for injection or, if not, the original purpose of the well.
- (4) Give the depths of any other perforated intervals and detail on the sacks of cement or bridge plugs used to seal off such perforations.
- (5) Give the depth to and name of the next higher and next lower oil or gas zone in the area of the well, if any.

### XIV. PROOF OF NOTICE

All applicants must furnish proof that a copy of the application has been furnished, by certified or registered mail, to the owner of the surface of the land on which the well is to be located and to each leasehold operator within one-half mile of the well location.

Where an application is subject to administrative approval, a proof of publication must be submitted. Such proof shall consist of a copy of the legal advertisement which was published in the county in which the well is located. The contents of such advertisement must include:

- (1) The name, address, phone number, and contact party for the applicant;
- (2) The intended purpose of the injection well; with the exact location of single wells or the Section, Township, and Range location of multiple wells;
- (3) The formation name and depth with expected maximum injection rates and pressures; and
- (4) A notation that interested parties must file objections or requests for hearing with the Oil Conservation Division, 1220 South St. Francis Dr., Santa Fe, NM 87505 within 15 days.

NO ACTION WILL BE TAKEN ON THE APPLICATION UNTIL PROPER PROOF OF NOTICE HAS BEEN SUBMITTED.

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NOTICE: Surface owners or offset operators must file any objections or requests for hearing of administrative applications within 15 days from the date this application was mailed to them.

### III. Well Data

A. 1) Lease name: **Poker Lake Unit**  
 Well #: **151** 30-015-31595  
 Section: **6**  
 Township: **24S**  
 Range: **30E**  
 Footage: **510' FNL 1980; FEL**

2) Casing Info:

Casing size	Set depth	Sacks cmt	Hole size	TOC	Method
8-5/8" 24# WC-50 STC/J55	575'	195	11"	Surface	Circulated
5-1/2" 15.5/17#;K55/ J55;L80/LTC	7,430	650	7-7/8"	3,100'	TS

3) Tubing to be used (size, lining material, setting depth):  
**2-7/8" 6.5# J-55 Seal Tite IPC tbg set @ 7000'.**

4) Name, model, and depth of packer to be used:  
**5-1/2" Lokset Nickel Plated EXT/INT PC Pkr set @ 7000'.**

B. 1) Name of the injection formation and, if applicable, the field or pool name:  
**Nash Draw (Delaware)/BS/Avalon Sand (Delaware) Formation**

2) The injection interval and whether it is perforated or open hole:  
**Interval 7082 - 7294'; Perforated**

3) State if the well was drilled for injection or, if not, the original purpose of the well:  
**Drill & complete as an oil well in the (Delaware formation), Nash Draw (Delaware)/BS/Avalon Sand Pool**

4) Give the depths of any other perforated intervals and detail on the sacks of cement or BPs used to seal off such perforations:  
**N/A**

5) Give the depth to and the name of the next higher and next lower oil or gas zone in the area of the well, if any:  
**Higher: None**  
**Lower: Bone Spring @ 7298"**

### C-108 DATA

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 wells type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.

Well Name	No.	API	Operator	Type	Location	Surface Casing	Intermediate Casing	Construction	Production Casing	Tubing	Spud Date	Comp Date	TD	Perforations	Stimulation
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SEE PAGE 3

VII.

Attach data on the proposed operation, including:

1. Proposed average and maximum daily rate and volume of fluids to be injected: **1,500 average, 2,000 maximum BWPD**
2. Whether the system is open or closed: **closed**
3. Proposed average and maximum injection pressure: **1405 psi average, 1405 psi maximum**
4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water: **Water will be produced from same reservoir (Delaware).**
5. If injection is for disposal purposes into a zone not productive of oil & gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water: **NA**

VIII.

Attach appropriate geologic data on the injection zone including appropriate lithologic detail, geologic name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with TDS of 10,000 mg/l or less) overlying the proposed injection zone as well as any such sources known to be immediately underlying the injection interval:

Lithologic Detail: **Sand, Shale**  
Geological Name: **Delaware Mountain Group**  
Thickness: **3753'**  
Depth: **3544-7297'**

The Rustler Formation is a known source of fresh water throughout this geographic area. Average depth of Rustler is 8-612'. No sources of fresh water are known to exist below the proposed disposal zone.

IX.

Describe the proposed stimulation program, if any:

The new perms will be perforated and acidized with approximately 50 gallons 7-1/2% NEFE HCl per foot.

X.

Attach appropriate logging and test data on the well. (If well logs have been filed with the Division, they need not be resubmitted.) Logs previously submitted.

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.  
There are no water wells within 1 mile of this well.

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 hydrology connection between the disposal zone and any underground sources of drinking water.  
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.

10. Attach a tabulation of data on all wells of public record within the area of review which penetrates the proposed injection zone. Such data shall include a description of each well type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged or abandoned well showing depth and casing.

[illegible]

## PROPOSED WELLBORE

LEASE: POKER LINE UNIT WELL #: 15 151FIELD: NASH'DRAW DELAWARELOCATION: 510' FNL & 1980' FEL, SEC 6, T24S, R30ECOUNTY: EDDYST: NMAPI: 30-015-31595

KB: 3258'

GL: 3245'

SPUD DATE: 4/20/2001

COMP DATE: 5/2/2001

## SURFACE CASING

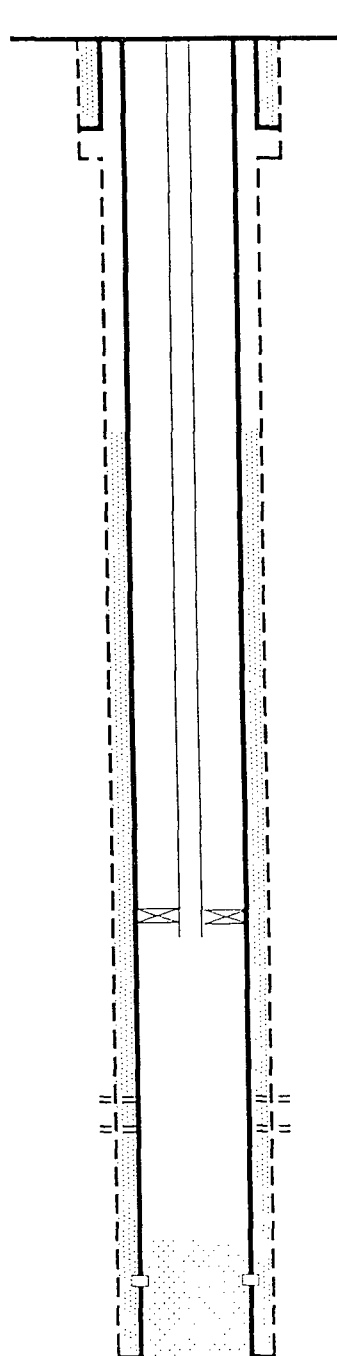
SIZE:	8-5/8"
WT/GRD:	24# WC-50
CSA:	575'
SX:	90/105 PERF/PREM+
CIRC:	Y
TOC:	SURF
HOLE SIZE:	11" 0-600'

## PRODUCTION CASING

SIZE:	5-1/2"
WT/GRD:	15.5# K55 0-4086'
WT/GRD:	15.5# J55 4086-6091'
WT/GRD:	17# L80 6091-7430'
CSA:	7430'
SX:	650 PREM+ 601 W/N2
CIRC:	Y
TOC:	3755' TS
HOLE SIZE:	7-7/8" 600-7430'

## PERFORATION DATA

05/01 PERF 7226-36' S: 750g 7-1/2% HCL  
acid. F: 68kg Viking 30+150.5k# 16/30 Brady  
sd + 40k# 16/30 RCS.



0' GL  
13' KB  
575' 8-5/8" 24# CSG  
600' 11" HOLE

3755' TOC (TS)

EOT/PKR 7000'

7226'  
7236'PERF LBC "Y" 7226-36'  
20 SHOTS7316' PBTB  
7340' FC7430' 5-1/2" 17# L-80 CSG  
7430' 7-7/8" HOLE

PBTB: 7316'  
TD: 7430'  
7406' (LOG)

Updated: 5/18/2010

Author: crm

Engr: CCC

## CURRENT WELLBORE

LEASE: POKER L E UNIT WELL #: 151  
 FIELD: NASH DRAW DELAWARE  
 LOCATION: 510' FNL & 1980' FEL, SEC 6, T24S, R30E  
 COUNTY: EDDY ST: NM API: 30-015-31595

KB: 3258'  
 GL: 3245'  
 SPUD DATE: 4/20/2001  
 COMP DATE: 5/2/2001

## SURFACE CASING

SIZE: 8-5/8"  
 WT/GRD: 24# WC-50  
 CSA: 575'  
 SX: 90/105 PERF/PREM+  
 CIRC: Y  
 TOC: SURF  
 HOLE SIZE: 11" 0-600'

## PRODUCTION CASING

SIZE: 5-1/2"  
 WT/GRD: 15.5# K55 0-4086'  
 WT/GRD: 15.5# J55 4086-6091'  
 WT/GRD: 17# L80 6091-7430'  
 CSA: 7430'  
 SX: 650 PREM+ 601 W/N2  
 CIRC: Y  
 TOC: 3755' TS  
 HOLE SIZE: 7-7/8" 600-7430'

## TUBING DATA

(219 JTS) 2-7/8" J-55 TBG

TAC @ 6969'

(9 JTS) 2-7/8" J-55 TBG

SS BLAST SUB

SN W/ STRAINER @ 7261'

## ROD &amp; PUMP DATA

2050' 1" UPCO 50 RODS

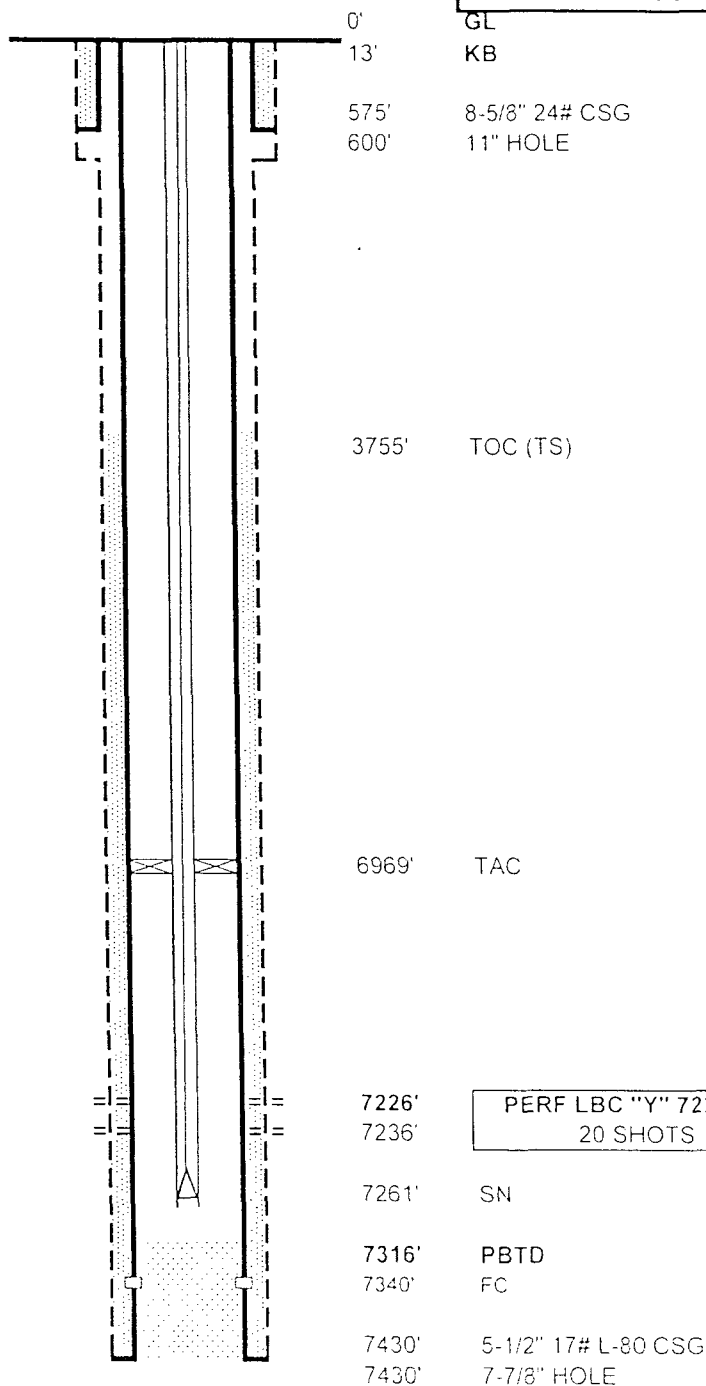
2125' 7/8" UPCO 50 RODS

3050' 3/4" UPCO 50 RODS

1-1/2" RHBM-BDV PUMP

## PERFORATION DATA

05/01 PERF 7226-36' S: 750g 7-1/2% HCL  
 acid. F: 68kg Viking 30+150.5k# 16/30 Brady  
 sd + 40k# 16/30 RCS.

GL  
KB8-5/8" 24# CSG  
11" HOLE

3755' TOC (TS)

6969' TAC

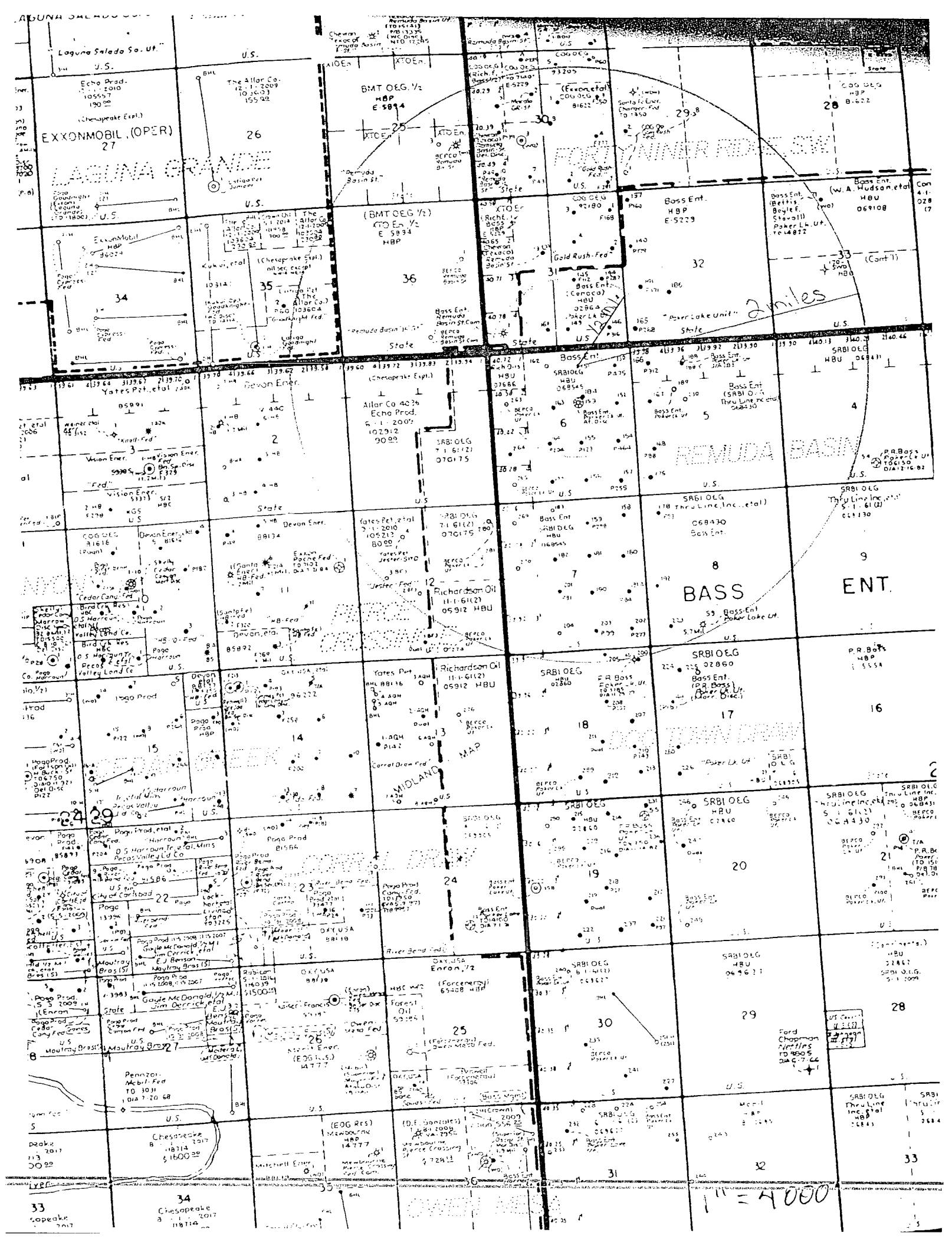
PERF LBC "Y" 7226-36'  
20 SHOTS

7261' SN

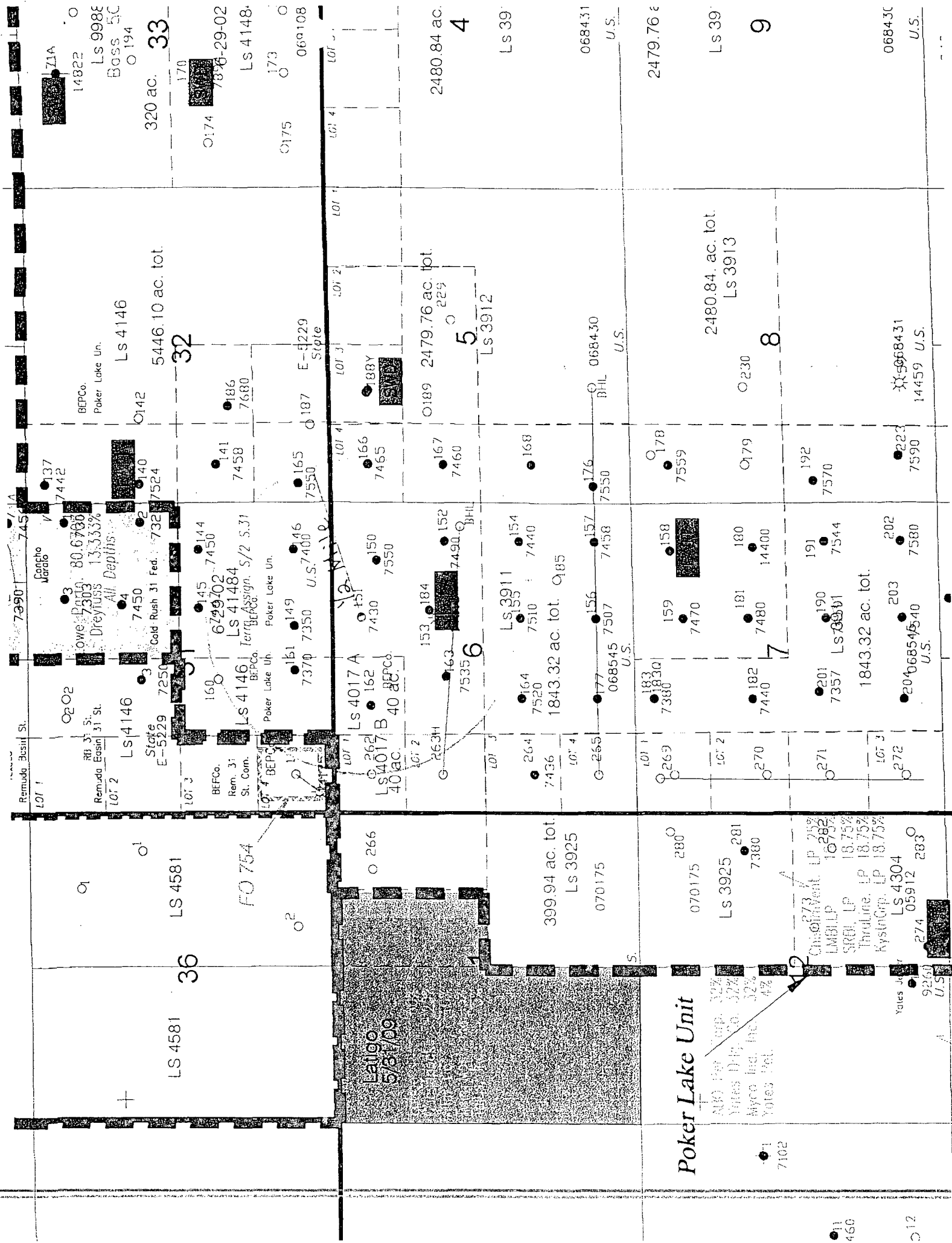
7316' PBTD  
7340' FC7430' 5-1/2" 17# L-80 CSG  
7430' 7-7/8" HOLE

PBTD: 7316'  
 TD: 7430'  
 7406' (LOG)

Updated: 10/10/2005  
 Author: KRA  
 Engr: MLL







## Affidavit of Publication

State of New Mexico  
County of Eddy, ss.

**Kathy McCarroll**, being first duly sworn, on oath says:

That she is the Classified Supervisor 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:

April 24 \_\_\_\_\_ 2010

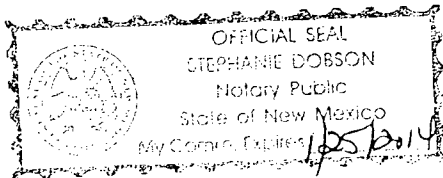
That the cost of publication is **\$57.35** and that payment thereof has been made and will be assessed as court costs.

*Kathy McCarroll*

Subscribed and sworn to before me  
this 27th day of April, 2010

*Stephanie Dobson*

My commission expires 1/25/2014  
Notary Public



April 24, 2010

### NOTICE OF APPLI- CATION FOR A SECONDARY RECOVERY WELL PERMIT

BOPCO, L.P. has applied to the New Mexico Oil Conservation Division for a permit to inject produced salt water or other oil and gas waste into a porous formation productive of oil or gas.

The applicant proposes to inject produced water or other oil and gas waste into the Poker Lake Unit #151 (Delaware Formation). The maximum injection pressure will be 1405 psi and the maximum rate will be 2,000 bbls produced water/day. The proposed disposal well is located 7 miles northeast of Malaga, New Mexico in Section 6, T24S, R30E, Eddy County, New Mexico. The produced salt water will be disposed at a subsurface depth of 7,028 - 7,294'.

Any questions concerning this application should be directed to Sandra Bell, Regulatory Clerk, BOPCO, L.P., P.O. Box 2760, Midland, Texas 79702-2760, (432) 683-2277.

Interested parties must file objections or requests for hearing with the Oil Conservation Division, 1220 S. St Francis Dr., Santa Fe, New Mexico 87505 within 15 days.

RECEIVED  
APR 30 2010  
BOPCO WTD PRODUCTION