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2009	JUN 24 P	NEW MEXICO OIL CONSERVATION DIVISION
		ABOVE THIS LINE FOR DIVISION USE ONLY NEW MEXICO OIL CONSERVATION DIVISION 1 01 - Engineering Bureau - 1220 South St. Francis Drive, Santa Fe, NM 87505 20 - 0/5- 3392 F Polker Lake Unit #277 Polker Lake Unit #277 Polker Lake Unit #277 Polker Lake Unit #277 Polker Lake Unit #277
 ть		ADMINISTRATIVE APPLICATION CHECKLIST
	ation Acronyn	WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE
	[NSL-Non-Sta [DHC-Dov [PC-P	andard Location] [NSP-Non-Standard Proration Unit] [SD-Simultaneous Dedication] vnhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling] ool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement] [WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion] [SWD-Salt Water Disposal] [IPI-Injection Pressure Increase] alified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]
[1]	TYPE OF A [A]	PPLICATION - Check Those Which Apply for [A] Location - Spacing Unit - Simultaneous Dedication NSL NSP SD
	Chec [B]	k One Only for [B] or [C] Commingling - Storage - Measurement DHC CTB PLC PC OLS OLM SWD-1064-A
	[C]	Injection - Disposal - Pressure Increase - Enhanced Oil Recovery
	[D]	Other: Specify (even
[2]	NOTIFICAT [A]	TION REQUIRED TO: - Check Those Which Apply, or Does Not Apply
	[B]	Offset Operators, Leaseholders or Surface Owner
	[C]	Application is One Which Requires Published Legal Notice
	[D]	Notification and/or Concurrent Approval by BLM or SLO U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office
	[E]	For all of the above, Proof of Notification or Publication is Attached, and/or,
	[F]	Waivers are Attached
[3]		CURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE ATION INDICATED ABOVE.

[4] **CERTIFICATION:** I hereby certify that the information submitted with this application for administrative approval is **accurate** and **complete** to the best of my knowledge. I also understand that **no action** will be taken on this application until the required information and notifications are submitted to the Division.

### Note: Statement must be completed by an individual with managerial and/or supervisory capacity.

Print or Type Name

- 7

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Signature

Title

Date

e-mail Address

(432) 683-2277

FAX (432) 687-0329

2009 JUN 24 A 11:

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RECEIVED OCI

June 23, 2009

Re: Notice of Application to Amend Authorization SWD-1064 Poker Lake Unit #227 Eddy County, New Mexico File: 100-WF: PLU227.C108

Oil Conservation Division Attention: William Jones 1220 S. St. Francis Santa Fe, New Mexico 87505

Mr. Jones:

Enclosed please find BOPCO, L.P.'s application to amend Authorization SWD-1064 for the Poker Lake Unit #227, located in Section 30, T24S, R30E, Eddy County, New Mexico. It is our intention to plug back to the Upper Delaware and add perforations and to abandon the Lower Delaware injection perfs as shown on the attached well-bore sketch.

The subject well is on Federal land and a complete copy of the application has been sent to the BLM's Carlsbad office via Certified Mail. Please find a copy of the notice attached. I will provide a copy of the signed receipt card when it returns.

If additional information is required, please contact Ann Moore at the letterhead address, phone number or via email at camoore@basspet.com

Sincerely,

none

Ann Moore Senior Regulatory Clerk

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Attachments

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### Oil Conservation Division 1220 South St. Francis Dr. SANTA FE, NEW MEXICO 87505

Form C-108 Revised June 10, 2003

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## **APPLICATION FOR AUTHORIZATION TO INJECT**

I.	PURPOSE : Secondary Recovery       Pressure Maintenance X Disposal Storage         Application qualifies for administrative approval?       Yes No							
ÌÌ.	OPERATOR: BOPCO, L. P.							
	ADDRESS :_ P. O. BOX 2760 Midland TX 79705							
	CONTACT PARTY : Ann Moore PHONE: 1432)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 AMENDMENT OF SWD-1064							
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:							
	<ol> <li>Proposed average and maximum daily rate and volume of fluids to be injected;</li> <li>Whether the system is open or closed;</li> <li>Proposed average and maximum injection pressure;</li> <li>Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and</li> <li>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.).</li> </ol>							
*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: <u>Ann Moore</u> TITLE: Sr. Regulatory Clerk							
	SIGNATURE: DATE: 06/23/2009							

E-MAIL ADDRESS: camoore@basspet.com

\* If the information required under Sections VI, VHI, X, and XI above has been previously submitted, it need not be resubmitted. Please show the date and circumstance of the earlier submittal: <u>September 13, 2006</u> Application for SWD-1064

### 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.

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

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Footage:	Range:	Township:	Section:	Well #:	<ol> <li>Lease name:</li> </ol>
330' FNL & 560' FEL	30E	24S	30P	227	Poker Lake Unit

Casing Info.

Casing size	Set depth	Sacks cmt	Hole size	TOC	Method
8-5/8" 32# J&K 55	540'	560	12-1/4"	Surface	CIRCULATED
7" 23# 180	3700'	485	7-7/8"	Surface	SQUEEZED
4-1/2" 11.6# j55	7605'	716	6-1/8"	Surface	PERF & SQUEEZE*
* 4-1/2" Perfed @ ~4830 above previous TOC @ 4840' determined by TS Squeezed w/ additional 525 eye Class C + additives	Pavinue TOC @ 484	0' determined hy	TS SMIDDOD	w/ additional	505 eve Claes C + additive

4-1/2" Peried @ ~4830 above previous TOC @ 4840" determined by TS. Squeezed w/ additional 525 sxs Class C + additives & circulated to surface

Tubing to be used (size, lining material, setting depth):

2-3/8" 6.5# J-55 Seal tite PVC or similar @ 3750' if all proposed perforations are utilized.

- Name, model, and depth of packer to be used:
   Baker Lok-Set packer (plasti coated ID & nickel coated OD) @ 3750' if all proposed perforations are utilized.
- Name of the injection formation and, if applicable, the field or pool name: The Delaware formation of the Nash Draw (Delaware/BS/Avalon) pool.

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- The injection interval and whether it is perforated or open hole:
   Additional Delaware perfs will be added from 3800-4830' to create the overall injection interval
- 3) State if the well was drilled for injection or, if not, the original purpose of the well: The captioned well was drilled as a producer, but has been utilized as a disposal well since March of 2007. BOPCO, L.P. is seeking to add perfs in the Delaware to continue disposing of the PLU's produced water.
- 4) Give the depths of any other perforated intervals and detail on the sacks of cement or BP's used to seal off such perforations:

will be set at 4950' & capped w/ 35' Class C to permanently abandon these lower squeezed perfs and the existing open perfs from 6968-7347'. & 100 sxs Class C + additives. Perfs @ 6200-6640' were squeezed on 10-23-07 with 100 sxs Thixotropic Cmt & 120 sxs Class C + additives. A CIBP The well is currently an SWD with Delaware perfs at 6968-7347'. Delaware perfs at 5450-5695' were squeezed on 8-22-07 w/ 100 sxs Thixotropic cmt

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 Lime @ 7373'

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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

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of drinking water. and find no evidence of open faults or any other hydology connection between the disposal zone and any underground sources XII. No known fresh water wells within one mile of proposed well

Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data

injection or disposal well showing location of wells and dates samples were taken

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Depth:

3504-7373 3869'

Thickness:

Geological Name: Lithologic Detail:

Delaware Mountain Group Sand, Shale, Lime Sequences

Logs previously submitted

Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any

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

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

Describe the proposed stimulation program, if any

No sources of fresh water are known to exist below the proposed disposal zone

The Rustler Formation is a known source of fresh water throughout this geographic area. Average depth of Rustler is 200-400

VIII. Attach appropriate geologic data on the injection zone including appropriate lithologic detail, geologic name, thickness,

proposed well, attach a chemical analysis of the disposal zone formation water: n/a

5. If injection is for disposal purposes into a zone not productive of oil & gas at or within one mile of the

the receiving formation if other than reinjected produced water: water will be produced from same reservoir (Delaware).

waters with TDS of 10,000 mg/l or less) overlying the proposed injection zone as well as any such sources known and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing

to be immediately underlying the injection interval:

<u>≦</u>

Attach data on the proposed operation, including:

Poker Lake Unit 251H 30-015-34404 BOPCO Producer FEL S30 T24E

CTS, w/710 sxs

w/1425 sxs

sx w/ TOC @ 3860' by/6746'

For twenty Mart

9-5/8" 36#:@ 3492', CTS

<u>sx TOC 2920'TS</u>7457' 5-1/2" @ 9239', c/910 2-7/8" @ 7/8/2006 8/18/2006 7146' 8986-8990'

5-1/2" @ 7565', c/850 2-7/8" @ 2/15/2006 4/1/2006

7570' 7220-7425'

Ttl stimulation for all perfs 245m

TVD MD 9139-

PW, 1000# 30/50 Bauxite. Ttl stimulation for all perfs 275 gals qals PW & 20000# 14/30 Liteprop

SLC 2083# 14/30 LiteProp 169234# 20/40 Ottawa, 47616# 20/40 Poker Lake Unit 241 30-015-34308

BOPCO Producer FEL, S33 T23S-

840' FSL& 2030 1980' FNL, 785'

11-3/4" 42# @530', CTS w/365 sxs 13-3/8" 48# @680"

Intermediate Casing

Production Casing

Tubing

Date Spud

Comp

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Perforations Stimulation

Construction

Surface Casing

Well Name

No

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Operator

Type

Location

3. Proposed average and maximum injection pressure: 600 psi average, 760 psi maximum

4. Sources and an appropriate analysis of injection fluid and compatibility with

1. Proposed average and maximum daily rate and volume of fluids to be injected: 3,000 BWPD

2. Whether the system is open or closed: closed

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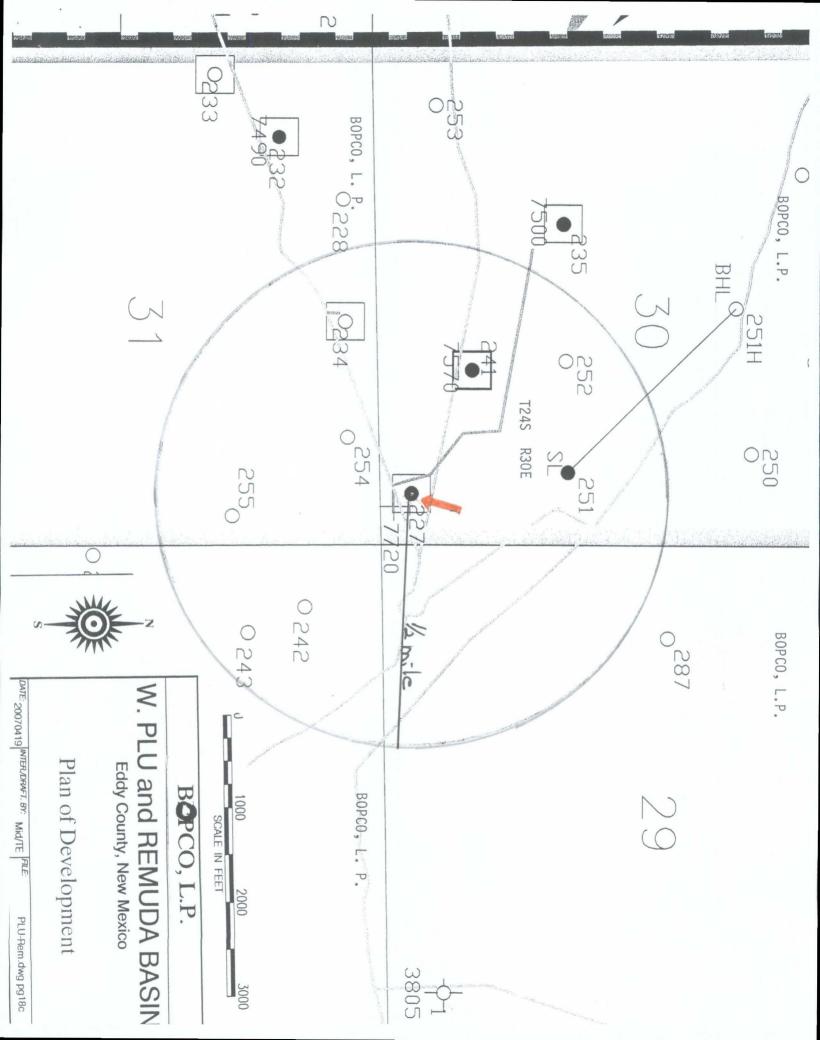
Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone.

C-108 DATA

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.

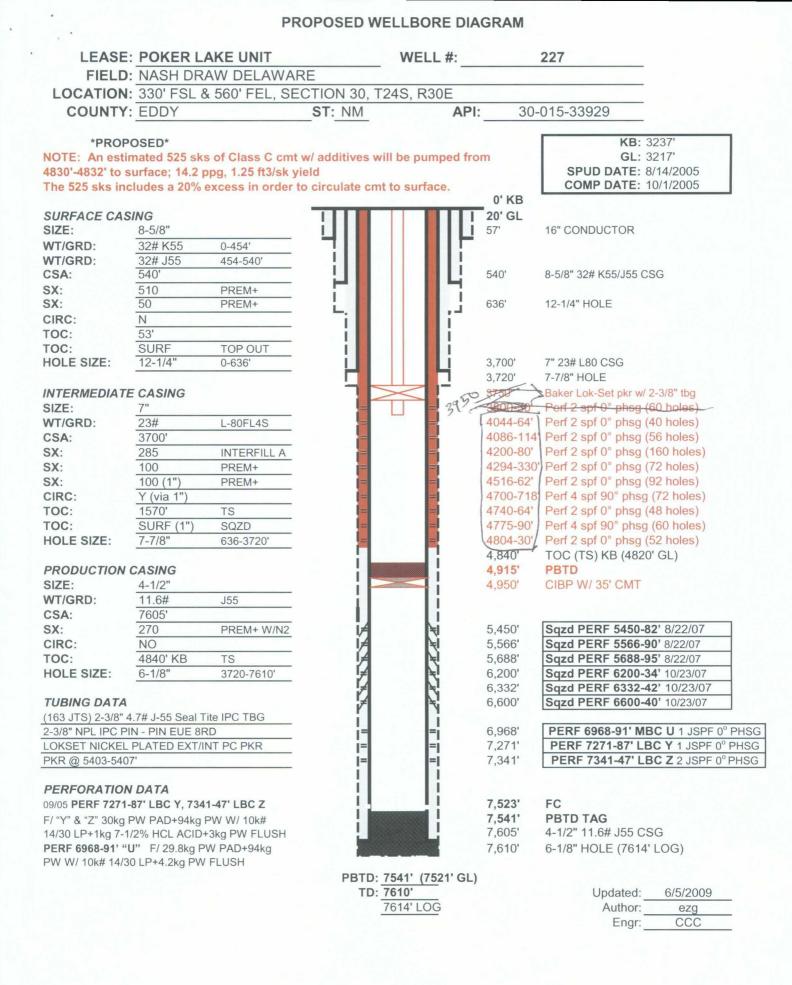
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LEASE:	POKER LA	AKE UNIT	WEL	L #:	227
FIELD:	NASH DR/	AW DELAWAF	RE		
LOCATION:	330' FSL 8	\$ 560' FEL, SE	CTION 30, T24S, R3	0E	
COUNTY:	EDDY		ST: NM	API:	30-015-33929
			CURRENT		KB: 3237' GL: 3217' SPUD DATE: 8/14/2005 COMP DATE: 10/1/2005
SURFACE CAS	ING		診験験	0' 20'	KB
SIZE:	8-5/8"			57	16" CONDUCTOR
WT/GRD:	32# K55	0-454'			
WT/GRD:	32# K55 32# J55	454-540'			
CSA:	<u>32# J55</u> 540'	404-040		540'	8-5/8" 32# K55/J55 CSG
SX:				<b>340</b>	0-0/0 02# 1(00/000 000
SX:	<u>510</u> 50	PREM+ PREM+		636	' 12-1/4" HOLE
			▙▖░▋▋	<b>J</b> 030	12-1/4 NULE
CIRC:					
TOC:	53'	TOD 01/7		17 ge - 17	
	SURF				
HOLE SIZE:	12-1/4"	0-636'		3,70	
WITCO			└╌╻╏╴┊┆╴┃	3,72	20' 7-7/8" HOLE
<i>INTERMEDIATE</i> SIZE:	E CASING 7"			1	
WT/GRD:	23#	L-80FL4S		4,84	40' TOC (TS) KB (4820' GL)
CSA:	3700'	L-001 L43		<sub>₽</sub> = 4,04	
SX:	285	INTERFILL A		57 <b>-</b>	
SX:	100	PREM+		5,3	93' Pkr
SX:	<u>100 (1")</u>	PREM+			
CIRC:	Y (via 1")			5,4	50' Sqzd PERF 5450-82' 8/22/07
TOC:	1570'				
TOC:	SURF (1")	SQZD		5,50	66' Sqzd PERF 5566-90' 8/22/07
HOLE SIZE:	7-7/8"	636-3720'		ି <b>।</b> କା 5,6	88' Sqzd PERF 5688-95' 8/22/07
PRODUCTION	CASING			ा <u>२</u> ,०,	
SIZE:	4-1/2"		¥ I	5,2	00' Sqzd PERF 6200-34' 10/23/07
WT/GRD:	11.6#	J55		aa T	• · · · · · · · · · · · · · · · · · · ·
CSA:	7605'			<b>4</b> 6,3	32' Sqzd PERF 6332-42' 10/23/07
SX:	270	PREM+ W/N2	i≠	S 6,6	
CIRC:	NO			6,8	
TOC:	4840' KB	TS		6,8	
HOLE SIZE:	6-1/8"	3720-7610'		= 6,9	
				) 기 구 ~	
TUBING DATA				≝ 7,2	71' PERF 7271-87' LBC Y 1 JSPF 0°
(163 JTS) 2-3/8" 4	CONTRACTOR OF THE OWNER				
2-3/8" NPL IPC P			1	<b>≓</b> 7,3	41' <b>PERF 7341-47' LBC Z</b> 2 JSPF 0°
LOKSET NICKEL					
PKR @ 5403-540	7'			ji	
				7,5	
PERFORATION				7,5	
09/05 PERF 7271-				7,6	
F/ "Y" & "Z" 30kg				7,6	10' 6-1/8" HOLE (7614' LOG)
14/30 LP+1kg 7-1		•			
PERF 6968-91' "	-	-	PBTD: <u>7541' (7</u>	<u>′5</u> 21' GL)	
PW W/ 10k# 14/3	0 LP+4.2kg PW	/ FLUSH	TD: <u>7610'</u>		Updated: 10/30/2007
			<u>7614' LC</u>	<u>DG</u>	Author: ezg
			7614' LC	<u>)G</u>	Author: ezg

uthor:	ezg
Enar:	CCC

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# **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:

June 12	2009
June 13	2009
June 14	2009
	2009

That the cost of publication is **\$127.91** and that payment thereof has been made and will be assessed as court costs.

Subscribed and sworn to before me this day of My commission expires \_ <u>39</u>17 Notary Public OFFICIAL SEAL STEPHANIE DOBSON Notary Public

State of New Mexico

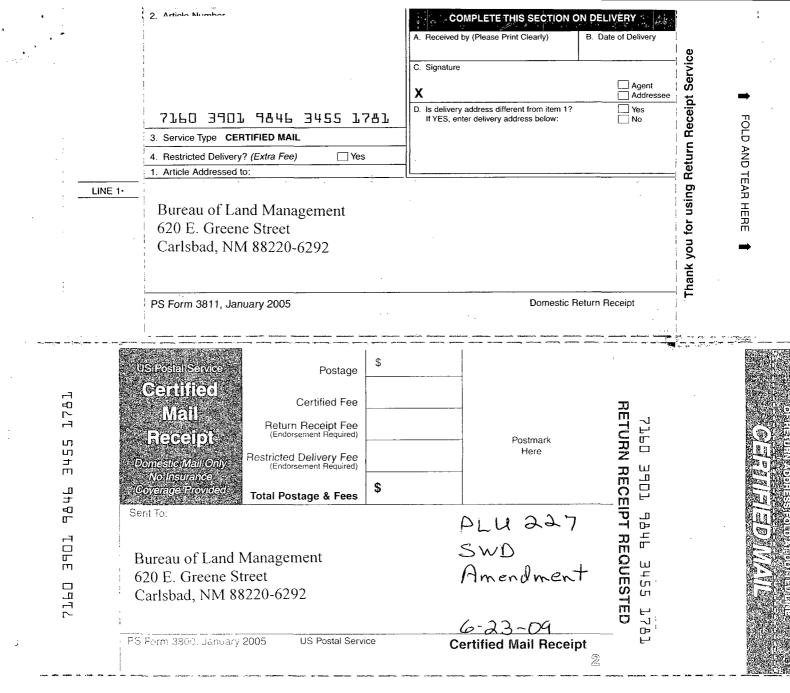
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My Comm. Expires'

Contraction of the second

June 12, 13, and 14, 2009 NOTICE OF APPL CATIONFOR SAL WATER DISPOS WELL PERMI BOPCO, L.P. has ap plied to the New Mexico Oil Conserva tion Division for an amendment to the permit to dispose of produced salt water or other oil and gas tormation productive of oil or gas. what P Warden The applicant poses to dispose produced water other oil and waste into the P Lake Unit #227 aware Formati The proposed dis well is ocated 33 southeast of Carl New Mexico in tion at a . of 3784 Ann questions con cerning This applica fion should be di rected to Ann Moore, Senior Regulatory P.O. Box 2760, Mid land, Texas 79702-2760, (432) 683-2277. Interested parties must file objections or requests for hearing with the Oil Conserva tion Division, 1220 S. St Francis Dr., Santa Fe, New Mexico 87505 within 15 days.





O TA GJOH S Orsurez Is delivery address different from iter If YES, enter delivery address below Yes 7160 3901 9846 3455 1781 3. Service Type CERTIFIED MAIL 4. Restricted Delivery? (Extra Fee) PHESAR. 1. Article Addressed to: Bureau of Land Management 620 E. Greene Street Carlsbad, NM 88220-629 ..... PS Form 3811, January 2005 Domestic Return Receipt يىغا ئىرىمىيە رايىلىرىمىيى سورا بىرىسى يېچىرىيى يېچى and a second US Postal Service Postage **Certified** 3455 L761 Certified Fee Mail Return Receipt Fee (Endorsement Required) Receipt Postmark Restricted Delivery Fee (Endorsement Required) Here Domestic Mail Only No Insurance Coverage Provided 3846 \$ Total Postage & Fees Sent To: PLU 227 106E SWD Amendment Bureau of Land Management 620 E. Greene Street 7160 Carlsbad, NM 88220-6292 6-23-09 Certified Mail Receipt PS Form 3800, January 2005 US Postal Service 2

# Jones, William V., EMNRD

From:	Moore, Ann [CAMoore@BassPet.Com]
Sent:	Wednesday, July 22, 2009 7:31 AM
To:	Jones, William V., EMNRD
Cc:	Cruz, Carlos
Subject:	RE: Disposal application from BEPCO LP to use the upper delaware in 30-015-33929 (Poker
Attachments:	Lake Unit #227) WELL BORE. PLU 251H.pdf; PLU 227 formation tops.doc

William:

In answer to your questions:

See attached formation tops for the PLU 227<sup>♥</sup>
 See attached well-bore sketch with the top of the Lamar and Bell Canyon marked.

3. BOPCO, L. P. does not plan to test the upper Delaware for hydrocarbons as our petro-physical analysis of these zones indicates that they are wet.

4. The PLU 68 is producing from the upper Delaware at 4376-88' and is approximately 7 miles away.

5. The newspaper article was done based on the initial information my supervisor gave me. When he chose the actual perfs, they were slightly different, but within the overall interval I had advertised.

Ann Moore Senior Regulatory Clerk BOPCO, L. P. (432) 683-2277 camoore@basspet.com

From: Jones, William V., EMNRD [mailto:William.V.Jones@state.nm.us]
Sent: Friday, July 17, 2009 6:17 PM
To: Moore, Ann
Cc: Ezeanyim, Richard, EMNRD; Reeves, Jacqueta, EMNRD
Subject: Disposal application from BEPCO LP to use the upper delaware in 30-015-33929 (Poker Lake Unit #227)

Hello Ann,

Questions primarily for your geologist:

- 1) Send formation tops from the Rustler top to the Bone Spring
- 2) The offsetting horizontal well has a reported cement top that is lower than BEPCO's planned perforations in the subject well. Please send a well bore diagram of the horizontal well showing cement placement and casing and mark the TVD top of the Delaware on the diagram. Is BEPCO willing to lower the planned injection perforations or squeeze cement the Horizontal well?
- 3) How does BEPCO plan to test the upper Delaware in the subject well for hydrocarbon productivity? Or how do you know it does not need to be tested?
- 4) Is there any offsetting production in this upper Delaware? How far away?
- 5) Why does the Newspaper Notice include slightly different proposed intervals than the application?

Thank You,

William V. Jones PE New Mexico Oil Conservation Division 1220 South St. Francis Santa Fe. NM 87505 505-476-3448

# Jones, William V., EMNRD

From:Moore, Ann [CAMoore@BassPet.Com]Sent:Wednesday, July 22, 2009 8:14 AMTo:Jones, William V., EMNRDCc:Cruz, CarlosSubject:RE: Disposal application from BEPCO LP to use the upper delaware in 30-015-33929 (Poker<br/>Lake Unit #227)

William:

I forgot the second part of your 2<sup>nd</sup> question. We will exclude the perfs at 3800-30', that correlate to the TOC in PLU 251H, The top set of perfs will be 4044-64'.

Ann Moore Senior Regulatory Clerk BOPCO, L. P. (432) 683-2277 camoore@basspet.com

From: Jones, William V., EMNRD [mailto:William.V.Jones@state.nm.us]
Sent: Friday, July 17, 2009 6:17 PM
To: Moore, Ann
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T/Rustler – 60' T/Salt – 630' Lamar – 3504' T/ Bell Canyon – 3538' T/Cherry Canyon – 4438' T/ Brushy Canyon – 5715' T/ Bone Spring Lime – 7374' T/ Avalon – 7398'

LEASE:	POKER LAKE UNI	т	WELL #	25	51 <u>H</u>	HORIZONTAL	
	NASH DRAW (DELAWARE)						
LUCATION:	SL: 1980' FSL & 785' FEL, SI BHL: 1626.6' FNL & 2275' FI			)E			
COUNTY:		ST: NM	1.1011100	API#	30-01	5-34404	
					<u> </u>	KD 01075	
**CURRENT*		HORIZONTAL KO	D 6727			KB: 3197.5 GL: 3180.3	
SEE HORIZONT	TAL SKETCH	HUHIZUNTAL KU	- 0/3/		SPU	D DATE: 7/8/2006	
				17.2' GL		P DATE: 11/15/2006	
SIZE:	RFACE CASING 13-3/8" 귀			0′ <b>KB</b>			
WT/GRD:	48# H-40						
SET @: SX CMT:	HFACE CASING 13-3/8" 48# H-40 680' 360 LT PREM+ 350 PREM+ VES 402 SY		김단	680'	13-3/8"	48# CSG 17-1/2" HOLE	
SX CMT:	350 PREM+				Т/\	.amar 3468'	
CIRC: TOC:	<u>1E3 403 5A</u>			3492'	9-5/8" 3	6# CSG 12-1/4" HOLE	
HOLE SIZE:	<u>504F</u> <u>17-1/2" 0-680'</u> <u>673</u>	<b>.</b>		3877		ell Canyon 3494'	
INTER	MEDIATE CASING		1	38/7	100(1	TS) KB	
SIZE: WT/GRD:	<u>9-5/8"</u>	l h l	r H	6137'	TAC		
SET @:	3492'		L i	0137	140		
SX CMT: SX CMT:	1000 HALCO PREM						
SX CMT:	175 HALCO PREM C	<b>FI</b> 11		5745.9		5.5# LTC	
CIRC: TOC:	N SURF THRU 1" TOPOUT	ji L		5746' 6672'	5-1/2* 1 SN	7# LTC X BTC XO (19')	
HOLE SIZE:	12-1/4" 680-3492'		1t	6,706	EOT		
PROL	N         N	Î.	6737	HORIZONT			
SIZE:	<u>5-1/2</u>						
WT/GRD: WT/GRD:	15.5# J55 0-5746 17# J55 5746-9239	ľ.				G LK BLW 7028' IN BEND TICAL & LATERAL	
SET @:	<u>9239'</u> 460 PBEM+	i i					
SX CMT: SX CMT:	460 PREM+ 00 450 PREM 00	i i i	Ľ	7,888'	PERI	F 7888-92' STG 4B 6 JSPF	
CIRC:	<u>3877'</u> <u>т S (КВ)</u> <u>8-3/4"</u> <u>3492-9240'</u> В	E E F E				HSG (24 HOLES) REPERF	
HOLE SIZE:	8-3/4" 3492-9240'	. A	ų.	8,008'		L(24 HOLES TTL 48 HOLES) RF 8008-12' LBC (STG 4)	
	TUBING DATA         N           g, TAC @ 6136.53', (17 jts)         H           sub, SN @ 6670.5', Pert sub,         K           r.w/BP&C         K		<b>]</b>		E	JSPF 60° (24 HOLES)	
(197 jts) 2-7/8" tbg	g, TAC @ 6136.53', (17 jts)		H	8,358'		PERF 8358-62' LBC	
2 7/8" tbg, SS tbg 2 7/8" Mud ancho	sub, SN @ 6670.5', Perf sub,	j}	1i		_ 6 JS	PF 60° PHSG (24 SHOTS)	
	П ТО		H	8,758		PERF 8758-62' LBC	
	FORATION DATA		1	8,762'	6 5	PF 60° PHSG (24 HOLES)	
		i d	(Ħ	8,986'		8,986-90' LBC 6 JSPF 60' PH	
	Y FOR DETAILS ON PERFS & STIMULATIONS	11	L	8,990'		LES) REPERF TTL 48 HOLES OM OPEN PERF INTERVAL	
<u> </u>	·		<u>l</u> i –	9,060	10K C	18P	
			٦ <u>ا</u>	PERFS E 9,139		9139-43' LBC (out of zone) 6	
		11	E	9,143' 9,146'	SP	F 60° PHSG (24 HOLES) 9,146-50' LBC 6 SPF 60° PHS	
			<u>Ē</u>	9,140		LES) REPERF TTL 48 HOLES	56
		i i i i i i i i i i i i i i i i i i i	ΩĽ	<b>9,158</b> ' 9,239'	PBTD 5-1/2" 1	(FC) 7# J-65 BTC	
		juil ' In an an an a		9,240		OLE (LOG)	
		PBTD: 9	060' (CIBP)				
		TD: 9	240'			Updated: 12/23/2008 Author: ezg	
						Engr: CC	
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to be the second of the					0.140 C		a ha ha ha ha ha ha ha
March Harrow College					aliter guid		

# Jones, William V., EMNRD

From: Sent: To: Subject: Moore, Ann [CAMoore@BassPet.Com] Thursday, July 23, 2009.9:56 AM Jones, William V., EMNRD RE: Disposal application from BEPCO LP to use the upper delaware in 30-015-33929 (Poker Lake Unit #227)

### William:

Thank you for the suggestion, but the problem with the well was not a need for more pressure. The problem is that the current disposal interval and the perfs we have squeezed in the past, are in communication with our Horned Toad 36 State #1H producing well in T25S, R29E, Sec. 36. We are trying to utilize the well-bore for disposal with what we have to work with.

Please let me know if you need anything else.

Ann Moore Senior Regulatory Clerk BOPCO, L. P. (432) 683-2277 <u>camoore@basspet.com</u>

From: Jones, William V., EMNRD [mailto:William.V.Jones@state.nm.us]
Sent: Tuesday, July 21, 2009 12:54 PM
To: Moore, Ann
Cc: Warnell, Terry G, EMNRD
Subject: RE: Disposal application from BEPCO LP to use the upper delaware in 30-015-33929 (Poker Lake Unit #227)

Ann:

Forgot the following question:

Has Bepco considered running a Step Rate Test to obtain an increased disposal pressure limit? This could potentially enable Bepco to dispose of enough water that the expensive recompletion to an upper interval would not be necessary.

Regards,

William V. Jones PE New Mexico Oil Conservation Division 1220 South St. Francis Santa Fe, NM 87505 505-476-3448

From: Jones, William V., EMNRD
Sent: Friday, July 17, 2009 5:17 PM
To: 'Moore, Ann'
Cc: Ezeanyim, Richard, EMNRD; Reeves, Jacqueta, EMNRD
Subject: Disposal application from BEPCO LP to use the upper delaware in 30-015-33929 (Poker Lake Unit #227)

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Injection Permit Checklist (7/17/09) SWD 64-69 Permit Date Case Well Name: Poro UNG # Wells \_Spud Date: New/Old: API Num: (30-)015-33,929 (UIC primacy March 7, 1<u>982)</u> Unit P Sec 30 TSp 24 560FEL Footages 330 FSL Operator: BEPCO, L.P. Contact OGRID: 26073 \_RULE 5.9 Compliance (Wells)\_ (Finan Assur) Operator Address: Po. Box 2760, MIDLAND Del inj Vell Current Status of Well: \_\_\_\_\_ Planned Work to Well: PLUE BASK, SQECMT, Perfectize 2 ¢ Planned Tubing Size/Depth: Setting **Cement Top and Determination** Depths Sx or Cf Method Hole .....Pipe 5/8 540 CIRC 560 Surfac Existing 11 3700 485 Existing Intermediate 716 Long String 605 Existing DV Tool Open Hole Total Dep Liner Well File Reviewed Diagrams: Before Conversion After Conversion Lelogs in Imaging File: of - Cormerci Producing (Yes/No) Intervals: Formation Depths Above (Name and Top) 504 Above (Name and Top) Injection..... a m ax. WHIP Interval TOP: Injection..... 830 Interval BOTTOM: Open Hole (Y/N 57158 73 Below (Name and Top) Deviated Hol Sensitive Areas: - Oapitan Cliff House Salt Depths ... Potasta Area (H-111-F Potash Lesser Fresh Water: Depths: C None Wells Analysis? \_Affirmative Statement **Disposal Fluid** Sources: Analysis? Disposal Interval Production Potential/Testing/A lysis Notice: Newspaper(Y/N) Surface Owner Mineral Owner(s) UNIT RULE 26.7(A) Affected Parties: Area of Review: Adequate Map (Y/N) \_\_\_\_\_ and Well List (Y/N) Active Wells 📶 Num Repairs \_\_\_\_\_ Producing in Injection Interval in AOR ..P&A Wells \_\_\_\_\_ Num Repairs \_\_\_\_\_ All Wellbore Diagrams Included? Ert Questions to be Answered: BS 0 DE Required Work on This Well: SOZ Request Sen Reply: AOR Repairs Needed: Request Sent Reply: Request Sent Reply:

SWD\_Checklist.xls/List