JAMES BRUCE ATTORNEY AT LAW

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August 31, 2010

RECEIVED OCD 2010 SEP -7 P 12:46

Case 14552

Florene Davidson Oil Conservation Division 1220 South St. Francis Drive Santa Fe, New Mexico 87505

Dear Florene:

Enclosed for filing, on behalf of BOPCO, L.P., is an application to approve a waterflood project, together with a proposed advertisement. The advertisement has also been e-mailed to the Division. Please set this matter for the September 30, 2010 Examiner hearing. Thank you.

Very truly yours,

the ames Bri

Attorney for BOPCO, L.P.

Persons Notified of Hearing

Bureau of Land Management Carlsbad, New Mexico

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Oil Conservation Division Artesia, New Mexico

BEFORE THE NEW MEXICO OIL CONSERVATION DIVISION

APPLICATION OF BOPCO, L.P. FOR APPROVAL OF A PILOT WATERFLOOD PROJECT IN THE DELAWARE FORMATION IN THE POKER LAKE UNIT, EDDY COUNTY, NEW MEXICO. BECEIVED OCD 2010 SEP - 7 P 12:446 Case No. (455.2)

APPLICATION

BOPCO, L.P. applies for an order approving a pilot waterflood project in the Poker Lake Unit, and in support thereof, states:

1. Applicant proposes to convert to injection the following wells located in Township 24 South, Range 30 East, N.M.P.M., Eddy County, New Mexico:

(a) The Poker Lake Unit Well No. 150, located in Unit A of Section 6. A FormC-108 for the well is attached hereto as Exhibit A;

(b) The Poker Lake Unit Well No. 151, located in Unit B of Section 6. A Form

C-108 for the well is attached hereto as Exhibit B;

(c) The Poker Lake Unit Well No. 162, located in Unit C of Section 6. A Form

C-108 for the well is attached hereto as Exhibit C; and

(d) The Poker Lake Unit Well No. 166, located in Unit D of Section 5. A FormC-108 for the well is attached hereto as Exhibit D.

2. Injection will be into the Nash Draw-Delaware/Bone Spring Avalon Sand Pool at the approximate depths of 6950-7300 feet subsurface.

3. The wells are within the Poker Lake Unit, which covers 69,990.83 acres of land, more or less, in Eddy County.

4. The purpose of the injection is to institute a pilot waterflood project for the Poker Lake Unit, and the granting of this application will prevent waste and protect correlative rights. WHEREFORE, applicant requests that, after notice and hearing, the Division enter its order approving this application.

Respectfully submitted,

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James Bruce Post Office Box 1056 Santa Fe, New Mexico 87504 (505) 982-2043

Attorney for BOPCO, L.P.

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

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Form C-108 Revised June 10, 2003

APPLICATION FOR AUTHORIZATION TO INJECT

I.	PURPOSE : X Secondary Recovery Pressure Maintenance Disposal Storage Application qualifies for administrative approval? Yes No
11.	OPERATOR: BOPCO, L.P.
	ADDRESS : P O Box 2760 Midland Tx 79702
	CONTACT PARTY : Sandra J. Belt ext. 149 PHONE ; (432)683-2277
111.	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:
	 Proposed average and maximum daily rate and volume of fluids to be injected; Whether the system is open or closed; Proposed average and maximum injection pressure; Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and 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.).
*VII	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: <u>Sandra J. B.elt</u> DATE: 05/18/2010
	E-MAIL ADDRESS: sjbelt@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:

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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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 Lease name: Well #: Section: Township: Range: Footage:

Poker Lake Unit 150 30-015-31538 6 24S 30E 760' FNL 330; FEL

2) Casing Info:

Casing size	Set depth	Sacks cmt	Hole size	T0C	Method
8" 24# WC-50 STC/J55	600	205		Surface	Circulated
2" 15.5# J-55;17# L-80	7,549	725	7-7/8"	3673'	TS

- Tubing to be used (size, lining material, setting depth): 2-7/8" 6.5# J-55 Seal Tite IPC tbg set @ 7050'.
- Name, model, and depth of packer to be used: 5-1/2" Lokset Nickel Plated EXT/INT PC Pkr set @ 7050.
- 1) Name of the injection formation and, if applicable, the field or pool name: Nash Draw (Delaware)/BS/Avalon Sand (Delaware) Formation

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- 2) The injection interval and whether it is perforated or open hole: Interval 7082-7294 Perforated
- 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 (n)
- Give the depths of any other perforated intervals and detail on the sacks of cement or BPs used to seal off such perforations: BP @ 7200' will be removed to open up existing perfs at 7255-7265' 4
- 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 2350' دى

BOPCO application for disposal- JRU 48

ž	Attach a tabulation of data o Such data shall include a de and a schematic of any plug-	on all wells of pu sscription of eac iged well illustra	Iblic record th wells type ting all plug	within the area of e, construction, da gging detail.	review which penetri te drilled, location, d	ate the proposed injectio epth, record of completic	n zone. n,				
	Well Nan No. API	Operator	Type	Location	Surface Casing	Constructio Intermediate Casing	n Production Casing Tubing	Spud Date	Comp Date	TD Perforations Stimulation	
	SEE PAGE 3	•									
Ξ.	Attach data on the proposed 1. Proposed average and m 2. Whether the system is op 3. Proposed average and m 4. Sources and an appropris	d operation, incluaximum daily ru aximum daily ru aen or closed: c aximum injectic ate analysis of ii	uding: ate and volt losed njection flui	ume of fluids to be : 1416 psi averaged d and compatibility	injected: 2,000 ave ge, 1416 psi maxim y with	rage, 2,500 maximum 1 um	JWPD				
	the receiving formation if oth 5. If injection is for disposal proposed well, attach a chen	her than reinject purposes into a mical analysis ol	ed produce i zone not p f the dispos	d water: Water w roductive of oil & (al zone formation	ill be produced fror gas at or within one r water: NA	n same reservoir (Dela nile of the	ware).				
VIII	Attach appropriate geologic and depth. Give the geologi waters with TDS of 10,000 nr to be immediately underlying Lithologic De Sand, Shale Geological Ni Delaware Mc Thickness: 3,747 Depth: 3602 - 7349'	data on the inje ic name, and de ng/i or less) ove g the injection in cuntain Group	pth to botto pth to botto rlying the p iterval:	including approprie m of all undergrou roposed injection a	ate lithologic detail, c and sources of drinki zone as well as any ,	geologic name, thickness ng water (aquifers conta such sources known	ting				
	The Rustler Formation is a No sources of fresh water	a known source are known to e	e of fresh w exist below	ater throughout the proposed di	this geographic are sposal zone.	sa. Average depth of R	ustler is 2 79 - 523'.	•			
×	Describe the proposed stimu The perfs will be perforate	ulation program, d and acidized	if any: with appro	oximately 50 gallo	ons 7-1/2% NEFE H	Cl per foot.	·				
×	Attach appropriate logging a Logs previously submitted	ind test data on I.	the well. (If	well logs have be	en filed with the Divis	sion, they need not be re	submitted.)				
Ξ.	Attach a chemical analysis o injection or disposal well sho There are no water wells.w	of fresh water fro wing location of ithin 1 mile of t	m two or m I wells and (this well.	ore fresh water we dates samples we	slis (if available and j re taken.	producing) within one mi	le of any				

C-108 DATA

XII. Applicants for disposal wells must make an affimative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydology connection between the disposal zone and any underground sources of drinking water.

Applicant hereby affirms that he has examined the available geotogic 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.

No. N.P. Openant Type Location Same Casing w NU 14 30015-31007 DipPoL Preducer Same Casing w No Same Casing w PU 14 30015-31007 DipPoL Preducer Same 7.253, 8202 Same 0.257, CTS, CTS, CTS, CTS, CTS, CTS, CTS, CTS	PLU 154 10-015-31686 BOPCQLP Andaxer 566 FEL4,5580 FE2, 8-347 4-575 CT5, CIIIO 38 NA Sec 6, TA-5, ROE	PLU 155 3044(\$37447 BOPCO,1/F Producer 1960)FSL11406FEL 4-SAF 0-S77 CTS, C244-1: NA Sec 6, 1740, 1002	,PLU 161 00-0715-31374 9-07400,LP Prodecen 6607 FSL 6-2210 FBL, Sec., B-587 4-5187 witchdisse: TOC & VA. 31, 1725 A3406 Swit	PLU 162 30-015-355-72 BOHCO, UF FINGLEN 650 FML 1855 FML Set 8-358" 8-144" W600 111; TOC-# MJ 8, T245, NOXE Sent		PLU 1400 39975 XHAB BOPPO, UP Prodvani 11907 PK 0.2007 PM (PLU 110 30-075-34163 (200702), Proview 11907 PA (2230 PM), 1947 0.000 (01), CASE 184 See (, TAS, ROCE 100, 0.5 Saf PLU 113 30-015-11331 ROCE 104 (54, 1307 PM, See , 1-971 0.442 -4004 Jul; 100 0. MJ 21, 1733 ROCE 544	AU 1100 SOURS MAD BORCO, IP Process 1997 PA 2 220 PM, 1947 P 800 CTS. CASE IN PLU 115 SEATS MILL BORCO, IP Process Sea (S.L. 100 PL, Sea 1997 P MC - COM LL: TOC P NJ PLU 115 SEATS MILL BORCO, IP Process MIC PLA 100 PM, 1447 PM, 1447 PM, 1447 PLA 100 PM LL: 100 PM	PLU 100 SOMSJAND BONCO, IP Provide 11807 PM, 5280 PM, 1947 8.000 CTS.COSS4 84 PLU 113 364153133 BONCO, IP Provide Sec. 1715 ROCE 104 8.541 9.447 8.641 1100 8.541 PLU 114 364153185 BONCO, IP Provide South Fire, 1447 8.447 6.555 13. PLU 114 364153185 BONCO, IP Provide South Fire, 1447 8.447 6.555 13. PLU 114 364153185 BONCO, IP Provide South Fire, 1447 8.447 6.555 13.
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Normalizion Storg is 15% HCD acid with producers; fine with 50,005 Birdy - 41,056 Birdy - 41,0500 Birdy - 50,0224 HSO 00 Birdy - 41,0500 Birdy - 50,000 CFR 4000 1101 Ibbes, 7X4CL, Fine with 50,22 gain Vising 20 1101 Ibbes, 7X4CL, Fine with 50,000 CFR 4000 1101 Ibbes, 7X4CL, Fine with 50,000 CFR 4000 1100 Birdy + 60,000 CFR 4000 1101 Ibbes, 7X4CL, Fine with 50,000 CFR 4000 1100 Birdy + 60,000 CFR 4000 730 gain 7, 117% HCI acid; fine with 50,000 CFR 4000 1100 Birdy + 60,000 CFR 4000 730 gain 7, 117% HCI acid; fine with 50,000 CFR 4000 1100 Birdy + 60,000 CFR 4000 740 gain 7, 117% HCI acid; fine with 50,000 FFR 40,000 FFR 40,000 1100 Birdy + 60,000 FFR 40,000 FFR 40,000F	55,800 gal Villing 30 + 174,300 16/20 BS 60.000	16/30 CH SAM	1620 (14 4000) Frac wi 55,200 gai Yalang 30 + 184,0004 16270 Bendh + 60,000 CG-4000, 31,553 gail 6Frac 200 gait hada 53,0864 162/0 Ottuwa & 21,0778 1600 Super LC	Frac w 55,200 pel Vising 20 + 194,000e 192/0 Brady + 60,000e CR-4000e; 31,555 gast BFrac Stor get These 52,000e 192/0 Ottame & 21,0771 1900 Supper LC 7-1/2% MEE HCL 80 peris © 11100. 201g lightning 2006-XX (1200 Linepros-6/N # 1920) Ottame a 7446 16200 CR 4020	Frac w 55,200 per Vising 30 + 164,0004 1620 Gendy + 64,0004 CH-4004, 13,553 per Grinc 30 per Third & SJJ0564 1630 CHawe & 21,0771 1600 Super TC 17-1274 NEE MCL 8D per 1 & 11108, 201g Lightning 2006-2014 1720 LifeptopueSN4 1650 Chame a Hold KK90 CH4020 Sto gen 7-1275 NEE KCL Intel Trad-S4645'; Sto gen 7-1275 NEE KCL acid Intel T24-54645'; Sto gen 7-1275 NEE KCL acid Intel T24-54645';	Frac w 55,000 per Visiong 30 + 164,0004 1600 Bendy + 60,0004 CR-4000, 13,553 gask Birne, 369 get Aniel & Sajosek 1600 Ortune & 21,0771 1600 Super LC 7-122X HEE HCL BD perh & 11108, 204g Lightning 2004-274 1720 LifeptopueSN = 1650 Ortune a 2448 HCG CR 4000 500 gask 7-1225 HCL accidings 724-54445°; 500 gask 7-1225 HCL accidings 724-54445°; 500 gask 7-1225 HCL accidings 724-57455 Frac w 25074 HCG Ortune & 13,255 HCD super LC; 123,111 gas/94 + 1607174 HCG0 Life Prop; 122,243 gas/P4 + 5,9544 HCD0 Life Prop;	Fine: will Suborg Values; 30 + 184,0004 1500 Fine: will Suborg Values; 30 + 184,0004 1500 Brody + 60,000 CR-4000; 31,553; gual Effort; 300 geh Maak Subord Values; 81100; 7014 1-1/27; MEE HCL, BD perit: & 11100; 30kg lightming; 2000;27(1):1700; Lightpropues/84,8150; 500 geh; 7-1/27; MEE HCL, Infort; 7145-8445; 500 geh; 7-1/27; MEE HCL, Infort; 7145-8445; 512 HERD Ottures; 8: 1935; HOD Supper IC; 172,1119; gub 704; 9: 01/27; HCD 20: 5-forc; 172,243; gub 714; 9: 01/27; HCD 20: 5-forc; 172,1119; gub 704; 9: 10/27; HCD 20: 5-forc; 172,1119; gub 704; 9: 10/20; HCD 20: 5-forc; 172,112; HCD 20: 10/20; HCD 20: 5-forc; 172,114; gub 704; HCD 20: 5-forc; 172,114; HCD 20: 5-forc; 172,114; HCD 20: 5-forc; 172,114; HCD 20: 5-forc; 174,114; HCD 20: 5-forc; 174,114; 174,114; 174,114; 174,114; 1	Frac wi S2,000 gai Yalang 30 + 191,0004 15:00 Bendy + 60,0004 CH-4000, 13,553 gaial Efform, 30 gait Third & SJ,0004 15:00 Oftware & 21,0771 1600 Super LT N-107X NEE MCL BD perh & 11100, 200g lightning 2006-274 17:00 Lileptopu-654 15:00 Oftware a X448 1650 CM 4000 S00 gait 7: UZ3 NEE FL NCL Intern 774-548451; S00 gait 7: UZ3 NEE FL NCL action 7724-77455 Frac wi 20,071 1600 Ottware & 19,315 10:00 Super LC; 123,1111 gait WH + 100,174 14:00 Lile Prop; 122,233 gait WH + 19,325 11:00 Super LC; 123,1111 gait WH + 19,441 11:00 Super LC; 123,213 gait WH + 19,441 11:00 Super LL; 1400 CH-4000 Frac wi S2,000 gait 14:30 LW2 Frac wi 73,151 gait 14:30 CH-4000 Frac wi S2,000 gait 14:30 + 162,0004 B5 + 60,000	Frac wi 55,000 gai Vialog 30 + 164,0004 1650 Bindly + 60,000 CG+4000 11,553 gaia (Frinc 30 gait huait 53,000 gait 1600 Ottawa # 21,0771 1600 Supper LC 7-1/27: NEE IACL 800 parts # 11106 .034g Baything 2500-274 1720 Lingenpu-654 # 1600 Ottawa # 2448 1600 CG+4000 90 gaits 7-1/27: NEE IACL Inon 7245-5445"; 500 gaits 7-1/27: NEE IACL Inon 7245-5445"; 510 gaits 7-1/27: NEE IACL Inon 7245-5445"; 510 gaits 7-1/27: NEE IACL Inon 7245-5455; 510 gaits 7-1/27: NEE IACL Inon 7245-7355 Frac wi 23,078 1400 Ottawa + 19,375 1400 Gaits 760; 1920 CB-4000 Frac wi 52,000 gait 7-30 + 175,3820 Ottawa Sand - 61,278 1400 Gaiter 1-15,200 11507 GA-4000

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April 24, 2010 NOTICE OF APPLI CATION FOR A

SECONDARY RECOVERY WELL PERMIT

BOPCO, L.P., has applied to the New Mexico Oil Conservation Iom Division for a permit to intect produced solt water or other oil and pas waste into a porgus formation productive of oil or gas.

The applicant proposes, to inject produced water or other oil and gas waste into the Poker Loke Unit #150 (Delaware Formum injection pressure will be 1416 psi ond the maximum rate will be 2,500 bbls produced water/day. The proposed water/day. The proposed disposol well is located 7 miles northeast of Maloga, New Mexico. The proposed disposed water/day. New Mexico. The produced soft water will be disposed and the produced soft water will be disposed at a subsurface depth of 7,082-7,349.

Win, 3Ubsurto... 7,082 -7,349'. Any questions concerning this opplication should be directtion should be directted to Sandra Belt, Regulatory C.P., C.P., BOPC C.J.C. P., Clerk, BOPC C.J.C. Mildad, Texas, 4322 083-2277.

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

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.

1 Carll ,Subscribed and sworn to before me this c day of C DID onl চন্দ Doily My commission expires 22 Notary Public OFFICIAL SEAL STEPHANE DOBSON Notory Public State of New Mexico My COMM EXPINES \sim

RECEIVED APR 30 2010 BOPCO WTD PRODUCTION

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

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APPLICATION FOR AUTHORIZATION TO INJECT

I.	PURPOSE : X Secondary Recovery Pressure Maintenance Disposal Storage Application qualifies for administrative approval? Yes No
11.	OPERATOR: BOPCO, L.P.
	ADDRESS :_ P O Box 2760 Midland Tx 79702
	CONTACT PARTY : Sandra J. Belt ext. 149 PHONE : (432)683-2277
HI.	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?YesYesNo 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:
	 Proposed average and maximum daily rate and volume of fluids to be injected; Whether the system is open or closed; Proposed average and maximum injection pressure; Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and 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.).
*V⊞	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>Sandra J. Belt</u> ext. 149TITLE: <u>Sr. Regulatory Clerk</u>
	SIGNATURE: Sandia J-Belt DATE: 05/18/2010
	E-MAIL ADDRESS: sjbelt@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:

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

 A.
 1)
 Lease name:
 Poker Lake Unit

 Well #:
 151
 30-0

 Well #:
 510
 510' FNL 1930; FEL

 Footage:
 510' FNL 1930; FEL

30-015-31595

2) Casing Info:

ig size	Set depth	Sacks cmt	Hole size	100	Method
22	575	195	11:	Surface	Circulated
L80/LTC	7,430	650	7-7/8"	3,100′	IS

N....

- Tubing to be used (size, lining material, setting depth): 2-7/8" 6.5# J-55 Seal Tite IPC tbg set @ 7000'.
- Name, model, and depth of packer to be used: 5-1/2" Lokset Nickel Plated EXT/INT PC Pkr set @ 7000".
- Name of the injection formation and, if applicable, the field or pool name: Nash Draw (Delaware)/BS/Avalon Sand (Delaware) Formation

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- The injection interval and whether it is perforated or open hole: Interval 7082 • 7294', Perforated
- Drill & complete as an oil well in the (Delaware formation), Nash Draw (Delaware)/BS/Avalon Sand Pool State if the well was drilled for injection or, if not, the original purpose of the well: 6
- 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: Lower: Bone Spring @ 7298" Higher: None

				U	-108 DATA											
ゞ	Attach a tabulation Such data shall in and a schematic c	n of data on all w clude a description f any plugged w	rells of public r on of each we ell illustrating a	ecord within the Ils type, construc all plugging detai	area of review which pe tion, date drilled, locatio I.	netrate the proposed injec in, depth, record of comple	zion zone. etion,									
	Well Name No.	API	Onerator	Tvoe	Location	Surface Casing	Construction Intermediate Casing	Production Casine	Tubing	Spud Date	Comp Date	TO Per	forations	Stimulation		
	SEE PAGE 3					R										
,II,	Attach data on the 1. Proposed aver	Proposed opers age and maximu	ation, including Im daily rate a): nd volume of flui	ds to be injected: 1.500	averade, 2.000 maximu	m BWPD									
	2. Whether the s _j	stem is open or	closed: close	q											, ,	
	3. Proposed aver	age and maxim.	im injection pr	essure: 1405 ps	i average, 1405 psi ma	iximum									***	
	4. Sources and a the receiving form	ation if other that	arysis or inject n reinjected pr	roduced water: \	Ipenuiny wur Vater will be produced	from same reservoir (D	elaware).									
	5. If injection is fr proposed well, att	or disposal purpo ach a chemical a	ises into a zon analysis of the	e not productive disposal zone fo	of oil & gas at or within mation water. NA	one mile of the										
VIII.	Attach appropriate	s geologic data c	n the injection	a zone including :	appropriate lithologic det	tail, geologic name, thickn	ess,									
	and depth. Give	the geologic nam	ie, and depth t	to bottom of all u	nderground sources of d	trinking water (aquiters co	ntaining									
	waters with TDS	of 10,000 mg/l of	less) overlyin	g the proposed i	ijection zone as well as	any such sources known										
	to be immediately I ithologic Detail:	r underlying the i Sand, Shale	njection interv													
	Geological Name:	Delaware Mount	ain Group													
	Thickness:	3753'														
	Depth:	3544-7297														
	The Rustler Form	nation is a knov	vn source of t	fresh water thro	ughout this geographi	c area. Average depth c	of Rustler is 8-612'.									
	No sources of fr	esh water are k	nown to exist	below the prop	osed disposal zone.											
×	Describe the prop The new perfs w	osed stimulation ill be perforated	program, if ar I and acidized	ηγ: d with approxim	ately 50 gallons 7-1/2%	6 NEFE HCI per foot.										
×	Attach appropriate	s logging and tes	st data on the r	well. (If wett logs	have been filed with the	Division, they need not b	e resubmitted.)									
	Logs previously	submitted.														
X.	Attach a chemical injection or dispos	analysis of fres	n water from tr location of we	wo or more fresh lis and dates sar	water wells (if available	and producing) within on	e mile of any									
	There are no wa	er wells within	1 mile of this	well.												
Щ.	Applicants for dis and find no evider	posal wells must rce of open fault	make an affin s or any other	hative statement hvdology conne	that they have examined ction between the dispos	d available geologic and e sal zone and any undergro	ngineenng data ound sources									
	of drinking water.															
	Applicant hereby	r affirms that he	has examine	ed the available	geologic and engineer	ring data and finds no ev	vidence of open faults,									
	or other nyarolo	gic connection	between the (disposal zone a	nd any underground s	ource of drinking water.										

VI. Attach a tabulation of data on all wets of public record within the area of review which pervertes the proposed injection zone. Such data shall include a description of each wets pipe, construction date dritted, location, depth, record of completion and a schematic of any plugged wet ituatizating all plugging detail.

						J								
	Simulation	500 gabs 15% HCI acid w/ addinest; Inac w/ 56,195 gab Vitting 20 + 204,226¢ 15/30 Bracry + 46,596¢ CR-4000	130 bbiss Z5KCL.; Frac #60,923 gats Yāing 30 & 180,000s 16/30 Brady+60,000s CR-4000	20 bbls 24 KCL; Frax w,52,322 gals Viking 30+166.000# 16340 Blady 50+55,000 16241 RCS	Frac wi \$6,000 gai Viking 30 + 175,620 BS + 62,165 CR+4000	2000 gai 10% HCL, 7500 gai 7.112% HCL & 2200 _ 4 gai 15% Farcheck		Frac wi 55.300 gal Villing 30 + 104.0004 1670 Brady + 66.0006 CR-4000; 31.553 gasi Bfrac 309 gal haid & 38,8968 1600 Ontawa & 21.077# 1620 Super LC	7-172% NEE HCL BD ports @ 11104. 2019 Hythining 2500+216 17500 Liteprop-6544 1620 Ottawa = 2448 1620 CR 4000	500 gab 7-1/2% NEFE MCL acid from 7324-5845". 500 gabs 7-1/2% NEFE MCL acid from 7324-7345	Frae wi 78,31% gai Liphnning 3500 - Annia of gel. 62,1029 16:00 Channe & 19,315 16:00 Super LC: 112,119 gai PW + 11:01:12 14:00 Like Prop. 122,839 gai PW + 9,9669 14:00 Like Prop	500 gais 15% HCL acid: Frac #/71,151 gais Vising 20+201,400e 15:00 Brady sd_55,532 16:00 CR-4000	Frac w/ 52,000 gal V-30 + 165,000e B S + 60,000 CR-4000	750 gals 7:47% DBL Inhibitor NEFE HCL; Frac wr100.5kg Viking 3000_274.4ks 16/30 DHawa Sand 75kr 16/30 CR-4000
	Perforations	5910-7215	1111-5022	5922-5 52	.m2-m21	12,448-14,215		6011-1202	114-1176	SHEL (1009		7254 7265	0621-10821	1254-7256
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	Surface Casing	6-54" 8 535 CTS, C226 54 14	8-511' & 520 TOC & Suit w275 MA	LSN' & SOUTTOC & Suit. NA	358" @ 611 CTS CGB ar	15° @ 135° CTS, CA180 1× 10		1-54' 8 57 CTS CAU 11 N	₽54' @531' ~296 sis; TOC @ NJ Suri	P.58" & 446" w644 sus; TOC & NJ Suri	9.587 € boot CTS, C231 s., N TOC € Surf	8-51' & 552 v.200 i.is; TOC + N	1-5N° @ 515° CTS, C.025 11 N	est de rit wilso ira, foc g N Surt
	Lection	643 FS, 8 810 FEL Sec 31, TZS, RJ0E	HD F5L & 2310' FEL, 544. 31, T245,830E	750' FNL & MO' FEL	1540 FNL 8 564 FEL Sec 6 1245, R30E	1430 FML & 1980 FEL. Sec & T215, RD0E		1300' 751' 4' 1900' FEL. Sec 6, 124' 1, 1306	560 FSL & 2310' FEL, Sec. 31. T23, RD0E	ead fue uss fine, Sec. 6, This rise	1900' FNL & 2300' FML. See & T245, RJ0E	50'F5L4300 FML Sec. 20,7205,830E	640 FML 8 660 FWL, Sec 5, 12 85, RODE	1700 FML & 1850 FEL, Sec. 6, 1-245, RIJE
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	Operator	BOPCO, LP	BOPCO, LP	80PC0, LP	BOPCO.UP	BORCO, LP		B 0PC0. LP	80×C0.LP	80PC0.LP	BOPCO, LP	BOPCO, LP	BOPCO.UP	BORCO, LP
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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:

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.

and Subscribed and sworn to before me Ht day of (OI 10 λ pril this 20 aur My commission expires 25 Notary Public

OFFICIAL SEAL STEPHANIE DOBSON Notary Public State of New Mexico My Comm. Expires

April 24, 2010

NOTICE OF APPLI CATION FOR A SECONDARY RECOVERY WELL PERMIT

BOPCO. L.P. has applied to the New Mexico Oll Conservation Division for apermit to inject produced solt water other oil and sos waste into a porous formation productive of oil or gas.

of oil or gos. The applicant proposes to inlicit produced water or other oil and gas waste inlo the Poker Loke Unit #151 (Delaware Formation). The maximum inlection pressure will be 1405 psi and the maximum rate will be 2,000 bbls produced water/day. The proposed disposal well is located 77 miles northeast of Malaga, New Mexico in Section 6, 7245, R30E, Eddy County, New Mexico. The produced soft 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) 883-2277.

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

RECEIVED APR 30 2010 BOPCO WITD PRODUCTION

STATE OF NEW MEXICO
ENERGY, MINERALS and NATURAL
RESOURCES DEPARTMENT

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

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APPLICATION FOR AUTHORIZATION TO INJECT

Ι.	PURPOSE : X Secondary Recovery Pressure Maintenance Disposal * Storage Application qualifies for administrative approval? Yes No
11.	OPERATOR: BOPCO, L.P.
	ADDRESS :_ P O Box 2760 Midland Tx 79702
	CONTACT PARTY : Sandra J. Belt ext. 149 PHONE : (432)683-2277
111.	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?YesYooNo
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:
	 Proposed average and maximum daily rate and volume of fluids to be injected; Whether the system is open or closed; Proposed average and maximum injection pressure; Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and 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.).
*∨m	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>Sandra J. Belt</u> ext. 149 TITLE: <u>Sr. Regulatory Clerk</u>
	SIGNATURE:
	E-MAIL ADDRESS: sjbelt@basspet.com
÷	16.1 Consider a prime der Costions VI VIII V and VI above has been menuforale submitted it nord act he result witted

* 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:

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

Poker Lake Unit 24S 30E Lease name: Township: Footage: Section: Well #: Range: Ż

30-015-35522 660' FNL & 1855 FWL 162 6

> Casing Info: ର୍

Casing size	Set depth	Sacks cmt	Hole size	100	Method
8-5/8" 32# STC/J55 5-1/2" 15.5/17# J-55	680 7,407	500 1,790	12-1/4 7-7/8"	Surface Surface	Circulated Circulated

- Tubing to be used (size, lining material, setting depth): 2-7/8" 6.5# J-55 Seal Tite IPC tbg set @ 6,950' (1,000' IPC tbg between packers) ල
- Name, model, and depth of packer to be used: 5-1/2" Lokset Nickel Plated EXT/INT PC Pkr set @ 5,950' and 6,950' 4
- Name of the injection formation and, if applicable, the field or pool name: Nash Draw (Delaware)/BS/Avalon Sand (Delaware) Formation 7

m

- The injection interval and whether it is perforated or open hole: Interval 6,966' - 7,218'; Perforated ର୍
- 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 (m
- Give the depths of any other perforated intervals and detail on the sacks of cement or BPs used to seal off such perforations: CIBP @ 7,372'; Will set a CIBP @ 7300' w/35' cement on top over perfs @ 7324-7345'; PBTD @ 7,265', perfs @ 6030-6040' between packers @ 5950' and 6950' 4
- 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: Lower: Bone Spring/Avalon @ 7314' Higher: None ີດ

, iz	C-108 DATA 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 wells type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.		
	Well Nan No. API Operator Type Location Surface Casing Intermediate Casing Production Casing Tubing Date Date TD Perforations Stimulation	ulation	
	SEE PAGE 3		
AIL.	 Attach data on the proposed operation, including: Proposed average and maximum daily rate and volume of fluids to be injected: 1,500 average, 2,000 maximum BWPD Whether the system is now or closed: closed: 		
	 Proposed a verge and maximum injection pressure: 1393 psi average, 1393 psi maximum 8. Sources and an appropriate analysis of injection fluid and compatibility with 		·
	the receiving formation if other than reinjected produced water. Water with be produced from same reservoir (belaware). 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		
II.	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: 3,735		
	Depth: 3,492 - 7,227'		
	The Rustler Formation is a known source of fresh water throughout this geographic area. Average depth of Rustler is 410 - 667 No sources of fresh water are known to exist below the proposed disposal zone.		
X.	IX. Describe the proposed stimulation program, if any. Acidized with approximately 50 gallons 7-1/2% NEFE HCI per foot.		1 mar 1
×	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.		
x	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.	XII. Applicants for disposal wells must make an affimative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydology connection between the disposal zone and any underground sources of drinkino 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.		

T-INEW MEXICORRECULATORYSoftware Documents/WordNew Mexico Injection/PLU 162/PLU 162 SWD Application data

XII.

C-108 DATA VI. Attach a labulation 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 hipe, construction, date trailed, location, daph, record of completion,

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Well Name	No.	API	Operator	Twpe	Location	Surface Casing	Construction Intermediate Casino	Production Casing	Tubina	Spuc Oate	Comp Date Date	2	Perforations	Stimulation
PLU	149	30-015-31416	BOPCO, LP	Producer	600 FSL & 2310 FEL, Sec. 31; T245, P30E	8-518' 8 520' TOC @ Surf m/275 sxs	NA V	5-112' & 7350' ToC & 3400' cale, w/1,020 sus	2-7/8- 6	12/15/2000	1002111/1	7350	7205-17210	130 bblss 2%KCL: Frac w/60.922 gals Viking-30 & 180,000# 16/30 Brady+60,000# CR-4000
PLU	150	30-015-31538	BOPCO, LP	Conv ert to dsp. Well	760 FNL & 810' FEL	8-5.18" & 600; I OC & Surf.	NA	5-12° & 7548 FOC & 3673° FS	2-718° 8 7050'	4,842,001	511/2001	7550	7255-7265	20 bbls 2% KCL; Frac w/52,322 gals Viking 30+166,000# 16/30 Brady SD+55,000 16/30 RCS
bLU	151	30-015-31595	BOPCO, LP	Producer	510' FNL & 1980' FEL, Sec 6, T24S, R30E	8-518" & 575 CTS, C/195 sx	A	5-112" 8 7430", C1650 sx, TOC 3103" TS	2-7/8" @ 7103	1/20/2001	115/2001	7430	7226'-7236'	750 gals 7-1/2% HCl acid; frac w/ 68,069 gals Viking 30 + 190,458 BS
Ma	153	30-015-31412	BOPCO, LP	Producer	1800° FNL & 1980° FEL, Sec 6, T24S, R30E	16" @ 625" CTS, C/180 \$X	10-3'1" & 3578' CTS, C/2050 sx	7-58" © 11,450', C/1650 sx, TOC \$190'; 5-12" @ 14,517', C/050 sx, TOC 11,127'	2-7)8' B 14,135'	12/7/2000	4/1 2/2001	14,515'	12,848'- 14,216'	2000 gai 10% HCI, 7500 gai 7-1/2% HCI & 2200 gai 15% Fercheck
PLU	160	Never D	Drilled											
PLU	161	30-015-31318	BOPCO, LP	Producer	650 FSL & 2310 FEL, Sec. 31, T235,R30E	8-518° @ 518° n/290 5ns; TOC & Surf	NA	5-112" & 7370" w1,082 545; TOC & 3538; TS	2-718° @ 5,887	1002,7,5	10/12/2001	'97 CL	7166-7176'	7-1/2% NEE HCI, BD peris © 1110#. 30kg lightning 2500+2K# 17/30 Liteprop+69K# 16/30 Ottawa = 24K# 16/30 CR 4000
PLU	1630	30-015-34183	BOPCO, LP	Producer	1980° FNL & 2360° FWL Sec 6, T245, R30E	8-58° 8 800° CTS, CIS25 sx, TOC 8 Surf	A M	5-1/2" @ 7534', 1095 s1s, TOC 3010' (TS)	2-7,16° 8 7404°	34/2006	4/2 0/ 2006	7535'	6742'-7385'	Frac w/ 23,874 gal Lightning 2500 x- linked gel, 62,1021 16/30 Ottawa & 19,315 16/30 Super LC; 123,119 gal PW + 10,0124 14/30 Lile P0,122,833 gal pw - o cce4 x1011 i a D
PLU	1640	30-015-33137	BOPCO, LP	Producer	1980' FSL 1980' FWL; Sec. 6,T245,R30E	6-5/8"@ 810 w420 szs;70C Sunt.		4-112° 8 7471° W650 srs; FOC 8 4580°	2-778° @ 7397	8/23/2005	9/13/2005	7478'	7060'-7354'	124,439 gals PW+9,986# 14/30 Lite Prop: 124,360 gals PW + 9,912# 14/30 Lite Prop
PLU	184	30-015-31990	BOPCO, LP	Producer	1700' FNL & 1850' FEL, Sec. 6, T-24S, RD0E	8-518" © 827 wi550 . sxs, TOC © Surf	۲ ۲	5-1/2" & 7420' w/700 5x1, TOC & 3365' (TS)	2-7/8° @ 7314°	2115/2003	2/13/2003	7470'	7256-7266'	750 gais 7-12% DBL inhibitor NEFE HCL: Frac w100.5kg Viking 3000_274.4kf 15/30 Ottawa Sand 75kf 16/30 CR-4000
PLU	262 263H	Never (30-015-35115	Drile d BOPCO, LP	Producer	1894' FNL 674' FWI Sec. 6, T245, A30E	L 13-28° B 736' WT40 sxs, TOC Surf	9-518" @ 3489 w/1650 513, TOC & Surt.	5-1/2' 2 12,292 w/1465 \$45, TOC @ 3400	2-113° @ 7697	1015/2008	5002/21/2	12,302	8488'-12,302	40569 gals Blrac 25 (18690 gals pad)w100,2228 20'40 Super LCØ24,46 ppg stages.Flushed w12292 gals 10%inear
PLU	266	Never (Dritled											
Remuda Basin 31 State Com	-	30-015-31774	80PCD, LP	Producer	660' FSL 660' FWL See. 6, 235,R30E	, 13-3/8" @ 528 w/470 sxs, TOC @ Suff	9-5/8" @ 3461' w'1120 sxs, TOC Surf	7" @ 11,229 w1069 sxs; TOC Est. @ 3,000	2-245° () 13,815°	6010/2001	1002/12/6	14,175	13565-13786	8 Acidized w/4000 gals 70/30 10% HCI&3276 gals 2% KCI FW

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PROPOSED WELLBORE DIAGRAM





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CURRENT WELLBORE DIAGRAM



April 24, 2010

NOTICE OF APPLI -CATION FOR A SECONDARY RECOVERY WELL PERMIT

BOPCO, L.P. has applice, L.P. has aption Division for a guided to the New Mexico Oil Conservation Division for a guided tott worker of there soil and sas worker into a porous mormation productive el of oil or gas.

of oil or gas. The applicant proposes to inject produced water or other oil and gas waste into the Poker Lake Unit-#162 (Deloware Formation). The maximum injection prossure will be 1393 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 36, T245, R30E, Eddy County, New Mexico. The produced sait water will be disposed of a subsurface depth of 6,966-7218*. Any guestions con-

Any questions concerning this application should be directed to Sandro Belt, Regulatory, Clerk, BOPCO, L.P., P. Box 2760, Midland, Texos 79702-2760, (432) 683-2277.

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

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.

Hoal to Camer
this Aday of Chorin L. South
Stopen Posn
My commission expires 1251201 Notary Public

OFFICIAL SEAL STEPHANIE DOBSON Natary Public State of New Mexico My Countre Excise DSTON

RECEIVED

APR 30 2010

BOPCO WTD PRODUCTION

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

APPLICATION FOR AUTHORIZATION TO INJECT

I.	PURPOSE : X Secondary Recovery Pressure Maintenance Disposal Storage Application qualifies for administrative approval? X Yes No
II.	OPERATOR: BOPCO, L.P.
	ADDRESS :_ P.O. Box 2760 Midland TX 79702
	CONTACT PARTY :_ Valerie TruaxPHONE : (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?YesYesNo 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:
	 Proposed average and maximum daily rate and volume of fluids to be injected; EXHIBIT Whether the system is open or closed; Proposed average and maximum injection pressure; Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation in ource produced water; and 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: Valerie Truax TITLE: Regulatory Admin Assistant
	SIGNATURE:DATE: 05/14/2010
	E-MAIL ADDRESS: vitruax@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:

III. Well Data

660' FNL & 660' FWL Poker Lake Unit Lease name: **Fownship:** Footage: Section: Range: Well #: ç Ŕ

24S 30E

166 ŝ

> Casing Info: 5

Casing size	Set depth	Sacks cmt	Hole size	TOC	Method
8-5/8" 24# WC-50 ST&C	575'	325	12-1/4"	Surface	Circulated
5-1/2" 15.5# & 17# K55, L80 LT&C	7462*	630	7-7/8"	3879'	TS

- Tubing to be used (size, lining material, setting depth): 2-7/8" 6.5# J-55 Seal Tite IPC tbg set @ 7,050'. ŝ
- Lokset Nickel Plated EXT/INT PC Pkr set @ 7,050'. Name, model, and depth of packer to be used: 4
- Name of the injection formation and, if applicable, the field or pool name: Nash Draw (Delaware formation). 7 ന്
- Additional Delaware perfs will be added from 7,091-7,350' to create the overall injection interval. The injection interval and whether it is perforated or open hole: 3
- Drill & complete Lower Brushy Canyon (Delaware formation) development well. State if the well was drilled for injection or, if not, the original purpose of the well: ଳ
- Give the depths of any other perforated intervals and detail on the sacks of cement or BPs used to The well currently has Delaware perfs located at 7280572905 seal off such perforations: 4
- 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; Lower: Bone Spring Lime @ 7357' Higher: None ک

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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 drifted, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.

	Stimulation	Frac w/ 60,225 gal V-30 + 121,000# 16/30 BS + 55,753 gal V-30 + 170,669# BS + 75,274# CR. 4090	500 gals 15% HCI acid wi additives; frac wi 56,195 gal Viking 30 + 204,226# 16/30 Brady + 46,596# CR-4000	Frac w/ 52,322 gal Viking 30 + 166k# 16/30 BS + 55k# 16/30 RCS	750 gals 7-1/2% HC! acid: frac w/ 68,069 gals Viking 30 + 190,458 BS	Frac w/ 56,000 gal Viking 30 + 175,620 BS + 62,165 CR-4000	55,800 gai Vi Ming 30 + 114,300 16/30 BS 60,000 15/30 CR 4000	Frac w/ 71,151 gals V-30+ 201,400# 16/30 BS + 65,882# CR-4000	Frac wi 64, 069 gai V-30 + 175, 882# Ottawa Sand + 62, 796 16/30 CR.4000 & frac wi 18,571 gal V-30 + 45, 175# 16/30 Ottawa + 16,520# 16/30 CR.4000	1000 gal 7-1/2% NEFE HCI, frac wi 37,316 gal BFRAC 30, 102,820# 16/30 Ottawa San ^{ر *} 40,253# 16/30 Super LC	Frac w/ 109,939 gal PW + 9,238# 14/30 LiteProp	Frac wi 20,352 gai 104 Brine + 8,0004 14/30 LiteProp + 77,731 gai Lightning 2500 + 211,640# 16/30 Cttawa + 72# 16/30 CR-4000
	Perforations	7290'-7295'	5910'-7215'	7255-7265	7226'-7236'	7238'-7248'	7250°-7260°	7258-7268	6810'-7290'	7256'-7266'	7368'-7414'	7320-7330'
	e	7458'	7400	7550	7430'	7450	7440	7550'	7460'	7470	7685'	7624'
Comp	Oate	1/6/2001	5/13/2000	112/2001	7/5/2001	6/13/2001	7/1/0/2001	418/2001	5/21/2003	3/7/2003	10/1/2006	11/20/2004
Sput	Date	0192/0721	411 212 006	413/2001	4/20/2001	51512001	6/4/ 2001	1002126	410/2003	211-512 003	sit 8/2006	10/22/2004
	Tubing	: 2.718° @ 7145'	2.715° @ 7025'	2-7/8" @ 7082	2-7/8" @ 7103	2-718° @	2-7/8" @ 70/85	2-718" @	2.718°@	2.716°@	2-718" @ 7469'	2-716° @
	Production Casing	5-112-6 1458, Cl 360 st, TOC 2908 est	5 112' @ 7400', C1865 st. TS 31 65	5-112" @ 7550", 225 sx, TOC 3672"	5-112" @ 7430'; C1650 sx, TOC 3100" TS	5-112" @ 7450', C1620 53, TOC 3473" TS	5-112" @ 5102, 205 s., TOC 6100; 5-12" @ 6415, 40 s.; \$ 112" @ 7440, 400 s., TOC 3465 75	5-112"@7550', C1850 sr, TOC 3425' TS	-112" € 745", 756 ±1. 100 3318 TS	5-1/2" @7/470', 709 s.x, TOC 3365 75	5-112" @ 7882', 1175 sz. EOC 2840' TS	5 1,2" @ 7614', C/FSA 53, TOC 4652" TS
Construction	Intermediate Casing	-			4	4	4		7		-	
		ž.	⊋ x	ž	ž	N N	N X	XN X	ž	X NG	н Э	2
	Surface Casing	8-518" @ 600" CTS, C/275	8-513" @ 515' CTS, C1220	8-518" @ 600' CTS, CI205	8-518" @ 515' CTS, C195	8-5/8" @ 616' CTS, C1535	8-58° @ 575' CTS, C130	8-5/8" @ 552 CTS, C/645-	୫.୫୪୫" ପ୍ରି ୩୫୪ ୦୮୫, ୦୮୫୬୫	୫-୫ነଣ" କ୍ରି ଅଟ୍ଟ ୯୮୯, ୯୬୯ର	8-518" @ 517" CTS, C/770 .	8-518° @ 665' CTS, CI568
	Location	1980' FSL & 660' FWL, Sec 32, 7235, R30E	660' FSL & 310' FEL Sec 31, 7235, R30E	760' FNL & #10' FEL. Sec 6, T24S, R30E	510' FNL & 1980' FEL, Sec 6, T24S, R30E	1980' FNL & 660' FEL, Sec 6, T24S, R30E	660' FEL & 1980' FSL, Sec 6, T24S, R10E	560' FSL & 330' FWL Sec 32, T235, R30E	1980' FNL & 660' FNI, Sec 5, T245, R30E	1700' FNL & 1850' FEL. Sec 6, T24S, R30E	1750' FSL & 1630' FWL, Sec 32, 723S, R30E	695' FNL & 1880' FWL. Sec 5, 7245, R30E
	Type	Producer	Producer	Producer	Producer	Producer	Producer	Producer	Producer	Producer	Producer	Producer
	Operator	BOPCO, LP	BOPCO, LP	BOPCO, LP	BOPCO, LP	BOPCO, LP	BOPCO, LP	BOPCO, LP	BOPCO, LP	BOPCO, LP	BOPCO, LP	BOPCO, LP
	AP	30-015-30039	30-015-31007	30-015-31538	30-015-31595	30-015-31415	30-015-31686	30-015-31334	30-015-31696	30-015-31990	30-015-31973	30-015-33776
	No.	141	146	150	151	152	154	165	167	184	186	1887
	Well Name	PLU	PLU	PLU	PLU	PLU	PLU	PLU	PLU	PLU	PLU	PLU

Not Drilled 30-015-35609 BOPCO, LP 229

PLU

Attach data on the proposed operation, including:

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1. Proposed average and maximum daily rate and volume of fluids to be injected: 1000 average, 2,000 BWPD

Whether the system is open or closed: closed

Proposed average and maximum injection pressure: 1318 psi avarage, 1418 psi maximum
 Sources and an appropriate analysis of injection fluid and compatibility with

Concess and an appropriate analysis of injocution and comparishing that
 A concessing formation if other than reinjected produced water: water will be produced from same reservoir (Delaware)
 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: n/a

NII.

Attach appropriate geologic data on the injection zone including appropriate lithologic datai, 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, Shate Sequences Geological Name: Jase Sequences and finking waters: 3768' Detail: Sand, Shate Sequences Detail: Detail: Sand, Shate Sequences Ceological Name: 3768' Depth: 382-7350' The Rustler Formation is a known source of fresh water throughout this geographic area. Average depth of Rustler is 382-526 . No sources of fresh water are known to exist below the proposed disposal zone.

The new perfs will be perforated and acidized with approximately 50 gallons 7-112% NEFE HCI per foot; 500 gals total. Describe the proposed stimulation program, if any: ×

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. ×

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. No known fresh water wells within one mile of proposed well. ×

Applicants for disposal wells must make an affimative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydology connection between the disposal zone and any underground sources of drinking water. ĭ.

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.

COUNTY	: 660' FNL & 660' FWL, SECTION	15, T24S, R30E ST: <u>NM</u>	API	:	30-015-31695
COUNTY	: EDDY	ST: <u>NM</u>	API	:	30-015-31695
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IZE:	5-1/2"				-
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IT/GRD:	<u>17# J55 6151-6693'</u>		łi		
AUGRD:	1/# L80 6693-7462'				
X:	600/30 PERM+ W/N2 / C			3 879'	TOC (TS)
IRC:	Y		國	-,	
QC:	3879' TS				
OLE SIZE:	7-7/8" 575-7465'				
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AC @ 6901'			欁		
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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:

April 24

2010

That the cost of publication is **\$58.02** and that payment thereof has been made and will be assessed as court costs.

Aprily L'Call
this 27 day of 1, 2010
Hereinsing up 12
Notary Public
OFFICIAL SEAL

STEPHANIE DOBSON Notary Public State of New Mexic My Comm. Expires



RECEIVED

APR 30 2010 BOPCO WTD PRODUCTION

PROPOSED ADVERTISEMENT

Case No. 14552 :

Application of BOPCO, L.P. to institute a pilot waterflood project in the Delaware formation in the Poker Lake Unit, Eddy County, New Mexico. Applicant seeks approval to institute a pilot waterflood project in the Poker Lake Unit by the injection of produced water into the Delaware formation at the approximate depths of 6950-7300 feet subsurface in the following four wells located in Township 24 South, Range 30 East, NMPM, Eddy County, New Mexico:

- (a) The Poker Lake Unit Well No. 150, located in Unit A of Section 6;
- (b) The Poker Lake Unit Well No. 151, located in Unit B of Section 6;
- (c) The Poker Lake Unit Well No. 162, located in Unit C of Section 6; and
- (d) The Poker Lake Unit Well No. 166, located in Unit D of Section 5.

The pilot area within the Poker Lake Unit is centered approximately 5 miles east of Harroun, New Mexico.

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