



**APPLICATION FOR AUTHORIZATION TO INJECT**

- I. PURPOSE: \_\_\_\_\_ Secondary Recovery \_\_\_\_\_ Pressure Maintenance  Disposal \_\_\_\_\_ Storage  
Application qualifies for administrative approval? \_\_\_\_\_ Yes \_\_\_\_\_ No
- II. OPERATOR: BOPCO, L.P.  
ADDRESS: P.O. Box 2760, Midland, TX 79702  
CONTACT PARTY: Emma Z. Galindo PHONE: (432) 683-2277
- III. WELL DATA: Complete the data required on the reverse side of this form for each well proposed for injection.  
Additional sheets may be attached if necessary.
- IV. Is this an expansion of an existing project?  Yes \_\_\_\_\_ No  
If yes, give the Division order number authorizing the project: Administrative Order SWD-1402
- V. Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.
- VI. Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.
- VII. Attach data on the proposed operation, including:
1. Proposed average and maximum daily rate and volume of fluids to be injected;
  2. Whether the system is open or closed;
  3. Proposed average and maximum injection pressure;
  4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and,
  5. If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).
- \*VIII. Attach appropriate 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 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 sources 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: Emma Z. Galindo TITLE: Engineering Assistant  
SIGNATURE: Emma Z Galindo DATE: Dec. 18, 2013  
E-MAIL ADDRESS: ezgalindo@basspet.com

\* If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be resubmitted.  
Please show the date and circumstances of the earlier submittal: Admis. Order SWD-1402 March 2013

### 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 the 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, New Mexico 87505, within 15 days.

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

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

**III. Well Data**

- A. 1) Lease name: James Ranch Unit 21 Federal SWD  
 Well #: 1  
 Section: 21  
 Township: T22S  
 Range: 30E  
 Footage: 1508' FNL & 1926' FEL
- 2) Casing Info: No change

Casing size	Set depth	Sacks cmt	Hole size	TOC	Method
30", 157.68#, X52, PE	120		36"	Surface	Circulated
20, 133#, J-55, BTC	546'	1,126	26"	Surface	Circulated
13-3/8", 68#, HCN-80, BTC	3556'	2,785	17-1/2"	Surface	Circulated
9-5/8", 53.50#, L-80, LT&C	7500'	965	12-1/4"		
9-5/8", 53.50#, HCL-80, LT&C **	11,000'	2,260	12-1/4"	Surface	Circulated
7-5/8", 39#, P-110, Ultra FJ	10,800'-14,000'	570	8-1/2"	TO T.O.L.	Circulated
7-5/8", 42.80#, P-110, Ultra FJ	14,000-15,321'		8-1/2"		
	15,321-16,801'		5-1/2"	OH	

\*\*DV Tool @ 5,500'

- 3) Tubing to be used (size, lining material, setting depth): No change  
 4-1/2" 12.75#, L-80, RTS-8 IPC tbg set @15,271'.
- 4) Name, model, and depth of packer to be used: No change  
 4-1/2" Baker FA Nickel Plated EXT/INT PC Pkr set @ 15,271'.
- B. 1) Name of the injection formation and, if applicable, the field or pool name: No change  
 Devonian
- 2) The injection interval and whether it is perforated or open hole: No change  
 Open hole from 15,321 - 16,801 O.H.  
**BOPCO will evaluate the open hole interval by mudlogging the well as well as running open hole logs as in the ND 19 SWD.**
- 3) State if the well was drilled for injection or, if not, the original purpose of the well: No change  
 Newly drilled well for injection.
- 4) Give the depths of any other perforated intervals and detail on the sacks of cement or BPs used to seal off such perforations: No change  
 NA
- 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: No change  
 Higher: Bone Spring - 7,383' Lower: None

### 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. No change

**There are no wells that penetrate the proposed injection zone.**

- VII. Attach data on the proposed operation, including: No change
1. Proposed average and maximum daily rate and volume of fluids to be injected: 30,000 average, 35,000 maximum BWPD
  2. Whether the system is open or closed: closed
  3. Proposed average and maximum injection pressure: 3,058 psi maximum, 2,500 psi average
  4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water: Produce water will come from the Delaware formation.
  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: N/A

- 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: No change

**Lithologic Detail: Carbonate**  
**Geological Name: Devonian**  
**Thickness: 1510'**  
**Depth: 15,291' - 16,801'**

**The Rustler Formation is a known source of fresh water throughout this geographic area. Average depth of Rustler is 148-540'. No sources of fresh water are known to exist below the proposed disposal zone.**

- IX. Describe the proposed stimulation program, if any: No change  
**The open hole section from 15,321-16,801' will be acidized with approximately 50 gallons 15% NEFE HCl per foot for a total of 74,000 gallons.**

- X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division, they need not be resubmitted.) No change  
**Logs will be submitted. This will be a newly drilled well.**

- 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. No change  
**No known fresh water wells within one mile of proposed well.**

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

DISTRICT I  
1625 N. French Dr., Hobbs, NM 88240  
Phone (575) 393-8161 Fax: (575) 393-0720

DISTRICT II  
811 S. First St., Artesia, NM 88210  
Phone (505) 748-1283 Fax: (505) 748-9720

DISTRICT III  
1000 Rio Brazos Rd., Aztec, NM 87410  
Phone (505) 334-8178 Fax: (505) 334-8170

DISTRICT IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505  
Phone (505) 478-3400 Fax: (505) 478-3482

State of New Mexico  
Energy, Minerals and Natural Resources Department

Form C-102  
Revised August 1, 2011

Submit one copy to appropriate  
District Office

**OIL CONSERVATION DIVISION**  
1220 South St. Francis Dr.  
Santa Fe, New Mexico 87505

WELL LOCATION AND ACREAGE DEDICATION PLAT

AMENDED REPORT

API Number <b>30-015-41074</b>	Pool Code <del>96403</del> <b>96101</b>	Pool Name <del>WILDCAT (BONE SPRING)</del> <b>SWD; Deverial</b>
Property Code <b>306407</b>	Property Name <b>JAMES RANCH UNIT "21" Federal</b>	Well Number <b>1 SWD</b>
OGRID No. <b>260737</b>	Operator Name <b>BOPCO, L.P.</b>	Elevation <b>3165'</b>

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
G	21	22 S	30 E		1508	NORTH	1926	EAST	EDDY

Bottom Hole Location If Different From Surface

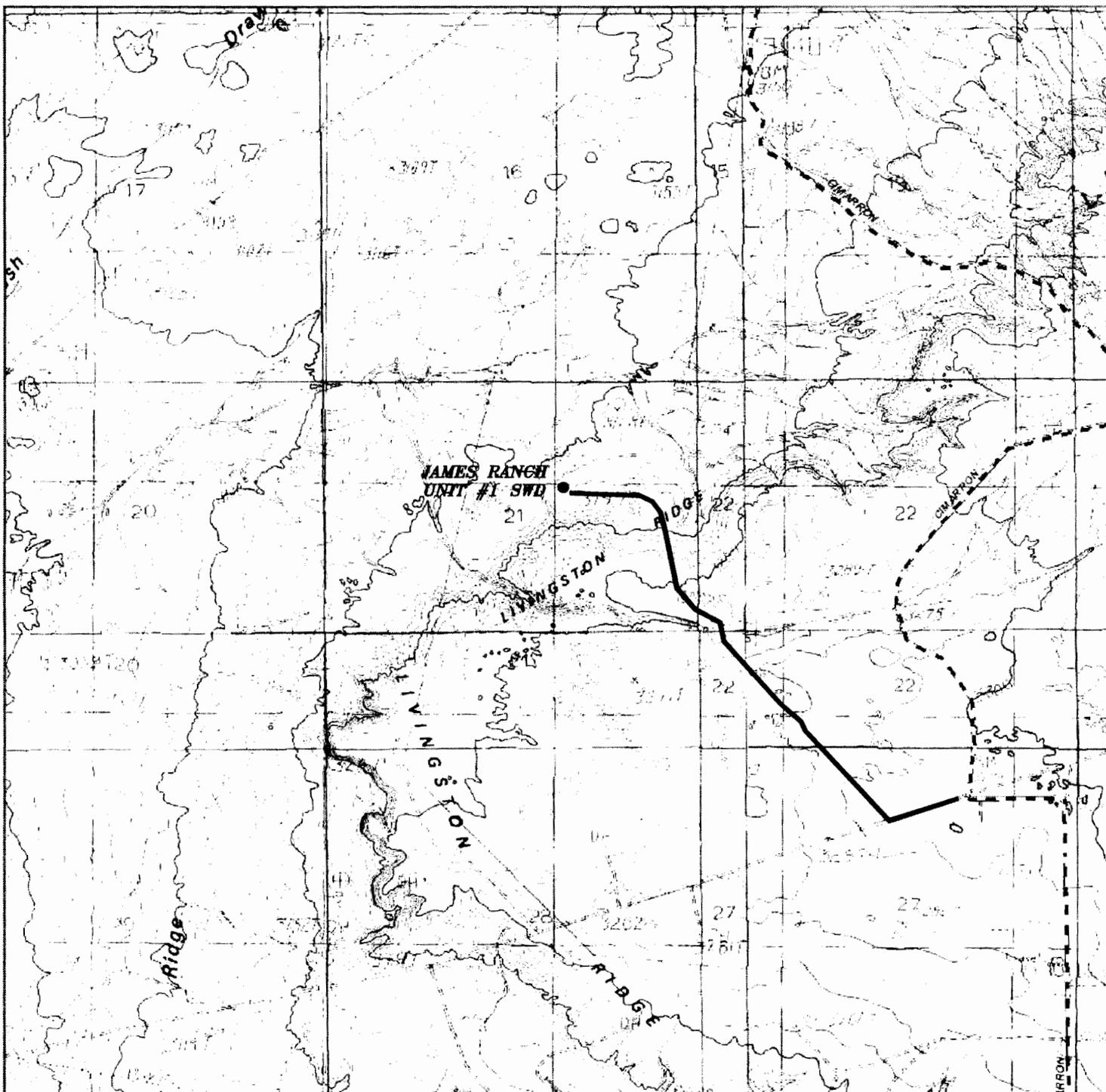
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.

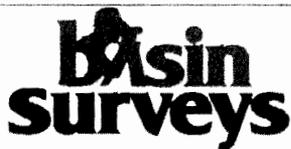
NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED  
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

	<p><b>OPERATOR CERTIFICATION</b></p> <p>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</p> <p>Signature _____ Date _____</p> <p>Printed Name _____</p> <p>Email Address _____</p>
	<p><b>SURVEYOR CERTIFICATION</b></p> <p>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</p>
	<p>Date Surveyed _____</p> <p>Signature and Seal of Professional Surveyor _____</p> <p></p>
	<p>Certificate No. Gary L. Jones 7977</p> <p>BASIN SURVEYS 28470</p>





**JAMES RANCH UNIT "21" #1 SWD**  
 Located 1508' FNL and 1926' FEL  
 Section 21, Township 22 South, Range 30 East,  
 N.M.P.M., Eddy County, New Mexico.



focused on excellence  
in the oilfield

P.O. Box 1786  
 1120 N. West County Rd.  
 Hobbs, New Mexico 88241  
 (575) 393-7316 - Office  
 (575) 392-2206 - Fax  
 basinsurveys.com

W.O. Number: KJG 28470

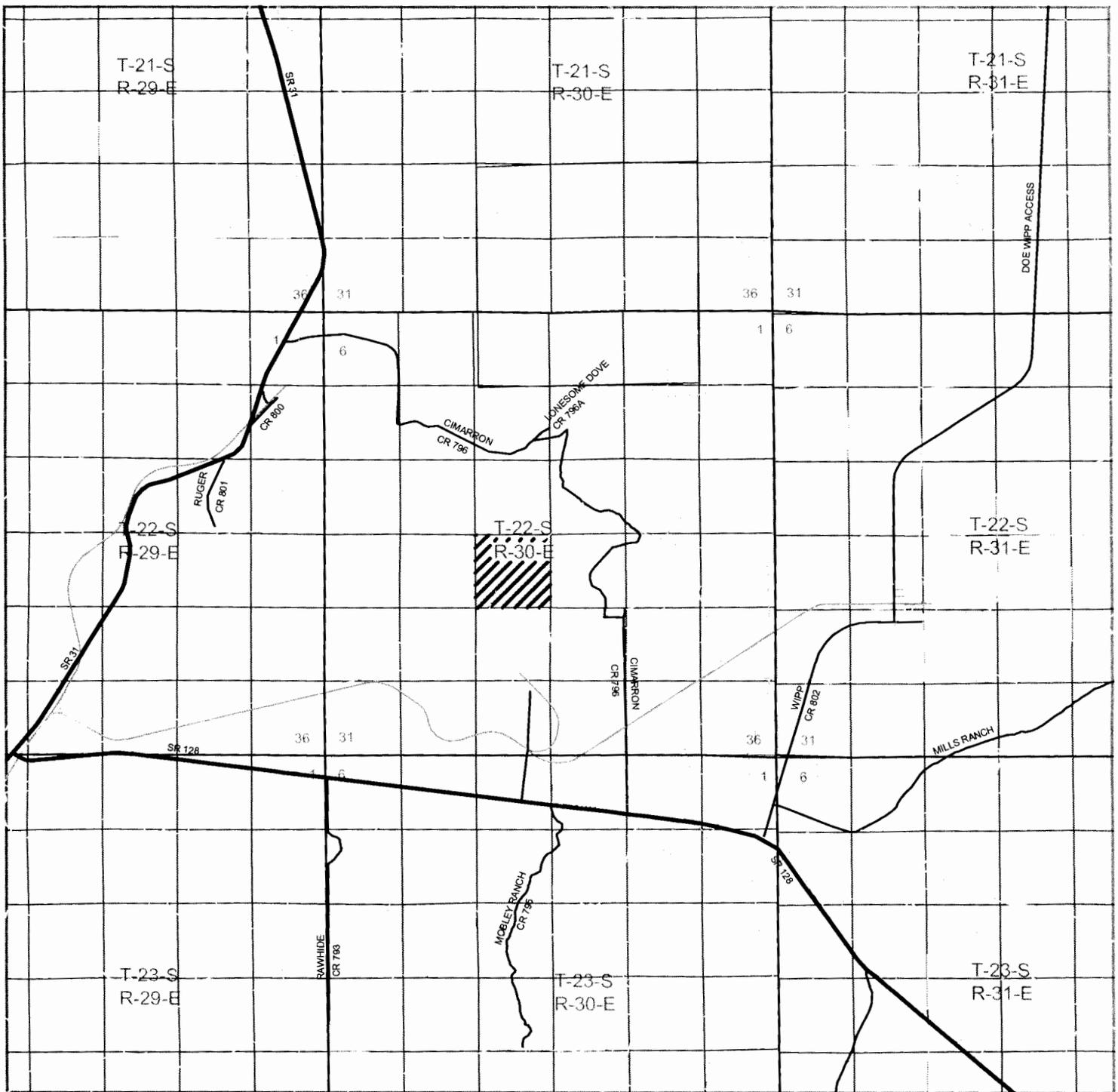
Survey Date: 04-02-2013

Scale: 1" = 2000'

Date: 04-04-2013



*BOPCO, L.P.*



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 (575) 392-2206 - Fax  
 basinsurveys.com

W.O. Number:	KJG 28470
Survey Date:	04-02-2013
Scale:	1" = 2 Miles
Date:	04-04-2013

*BOPCO, L.P.*



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Scale: 1" = 2000'

YELLOW TINT - USA LAND  
 BLUE TINT - STATE LAND  
 NATURAL COLOR - FEE LAND



*BOPCO, L.P.*

7160 3901 9846 4644 8031

1A  
2926-1



**Certified Mail Receipt**  
Domestic Mail Only  
No Insurance  
Coverage Provided

Sent To:

Bureau of Land Management  
620 E. Greene Street  
Carlsbad, NM 88220-6292

PS Form 3800, January 2005

US Postal Service

Certified Mail Receipt

2

Postage  
Certified Fee  
Return Receipt Fee  
(Endorsement Required)  
Restricted Delivery Fee  
(Endorsement Required)  
Total Postage & Fees

\$	
\$	
\$	
\$	

Postmark  
Here

RETURN RECEIPT REQUESTED

7160 3901 9846 4644 8031



**CERTIFIED MAIL**

PLACE STICKER AT TOP OF ENVELOPE TO THE RIGHT  
OF RETURN ADDRESS FOLD AT DOTTED LINE

**BOPCO, L. P.**  
6 DESTA DRIVE, SUITE 3700 (79705)  
P. O. BOX 2760  
MIDLAND, TEXAS 79702

(432) 683-2277

FAX (432) 687-0329

December 18, 2013

RECEIVED OGD  
2013 DEC 19 P 4: 03

**Re: Notice of Amendment to Administrative  
Order SWD-1402  
James Ranch Unit 21 Federal SWD #1  
API #30-015-41074  
Eddy County, New Mexico  
File: 100-WF: AMDJRU21FedSWD1.C108**

Oil Conservation Division  
Attention: Phillip Goetze  
1220 S. St. Francis Dr.  
Santa Fe, New Mexico 87505

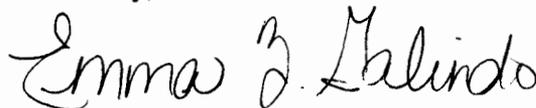
Mr. Goetze:

Enclosed please find BOPCO, L.P.'s **Notice of Amendment to Administrative Order SWD-1402** pertaining to the James Ranch Unit 21 Federal SWD #1 located in Section 21, T22S, R30E, 1451' FNL & 1861' FEL, Eddy County, New Mexico.

The subject well is on Federal land and a complete copy of this amendment will be sent to the BLM's Carlsbad office via Certified Mail, Cert #7160-3901-9846-4644-8031. Please find a copy of the notice attached. The previous location has been permitted for disposal since March 2013, but the location was moved. The location was moved 86.5' to the Southeast, 1508' FNL & 1926' FEL, due to an unanticipated surface impediment. The impacted parties within ½ mile radius are identical to those notified in the original approved application for this wellbore.

If additional information is required, please contact Emma Z. Galindo at the letterhead address, phone number or via email at [ezgalindo@basspet.com](mailto:ezgalindo@basspet.com).

Sincerely,



Emma Z. Galindo  
Engineering Assistant

ezg  
Attachments

CC: BLM

