

State of Colorado
Oil and Gas Conservation Commission

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FOR OGCC USE ONLY

Document Number:
401440457

Date Received:
11/01/2017

INJECTION WELL PERMIT APPLICATION

Submit a completed Form 33 with or after approval obtained on Form 31 (Underground Injection Formation Permit Application) or you must have a previously approved injection Well Permit.

1. Operator may not commence injection into this well until this form is approved.
2. Each individual injection well must be approved by this form.

Per Rule 325, this form shall be submitted with all required attachments.
 A Form 33 – Intent shall be submitted and approved prior to completing an injection zone.
 A Form 33 – Subsequent shall be submitted following completion of the well and must be approved prior to injection.
 NOTE: Injection for Enhanced Recovery requires the field to be unitized according to the 400 Series Rules. Injection for Disposal into a producing field requires unitization of the formation in the field.

Form 33 Type Intent Subsequent

OPERATOR INFORMATION

OGCC Operator Number: <u>10000</u> Name of Operator: <u>BP AMERICA PRODUCTION COMPANY</u> Address: <u>380 AIRPORT RD</u> City: <u>DURANGO</u> State: <u>CO</u> Zip: <u>81303</u>	Contact Name and Telephone: Name: <u>Patti Campbell</u> Phone: <u>(970) 335-3828</u> Fax: <u>()</u> Email: <u>patricia.campbell@bp.com</u>
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WELL INFORMATION

Well Name and Number: LOS PINOS WATER DISPOSAL 1 API No: 05-067-06973-00
 Field Name and Number: IGNACIO BLANCO 38300 County: LA PLATA
 QtrQtr: NENE Sec: 31 Twp: 35N Range: 6W Meridian: N

UIC FACILITY INFORMATION

UIC Facility ID: 150234 (as assigned on an approved Form 31)
 Facility Name: LOS PINOS WATER DISP 1 Facility Number: _____

WELLBORE INFORMATION

<u>Casing Type</u>	<u>Size of Hole</u>	<u>Size of Casing</u>	<u>Wt/Ft</u>	<u>Csg/Liner Top</u>	<u>Setting Depth</u>	<u>Sacks Cmt</u>	<u>Cmt Btm</u>	<u>Cmt Top</u>	<u>Status</u>
SURF	12+1/4	9+5/8	36	0	556	270	556	0	VISU
1ST	8+3/4	7	23 & 26	0	4699	950	4699	2660	CBL
	8+3/4	7	Stage Tool	0	2482	1040	2482	0	VISU

Plug Back Total Depth: 4655 Tubing Depth: 3099 Packer Depth: 3074

List below all Plugs, Bridge Plugs, Stage Cementing or Squeeze Work performed on this wellbore:

Original Packer set at ~ 3915'
 Squeezed 5bbl of cement to isolate leak at ~3148 feet. (May-96)
 Packer set at 3906 (May-96)
 Set RBP at 3200' & squeezed 25 sacks of cement to isolate casing leak at ~3170 feet. (Mar-99)
 Squeezed 3.3 bbl matrix cement behind casing, re-squeezed with a balanced plug, displaced 4.5 bbl matrix cement behind pipe to isolate casin leak at ~3272 feet.(Oct-05)
 Packer set at 3880' (Oct-05)
 Packer set at 3849' (Aug-16)
 Shot 2 squeeze perfs at 3620' to isolate casing leak at 3630 feet (plus or minus 8 feet). (Oct-16)
 Packer seat a 3074' (Jul-17)

Describe below any changes to the wellbore which will be made upon conversion (includes but not limited to changes of tubing and packer setting depths, any additional squeeze work for aquifer protection or casing leaks, setting of bridge plugs to isolate non-injection formations).

WELLBORE COMPLETIONS

<u>Formation Name</u>	<u>Gross Completed Interval from Top</u>	<u>Gross Completed Interval from Bottom</u>	<u>Completion Type</u>
LEWIS SHALE	3148	3630	Perforated
MESAVERDE	4026	4270	Perforated

Operator Comments:

I hereby certify that the statements made in this form are, to the best of my knowledge, true, correct, and complete.

Print Name: Patti Campbell

Signed: _____ Title: Regulatory Analyst Date: 11/1/2017 12:53:57 PM

OGCC Approved:  Title: _____ Date: 11/3/2017 7:55:46 AM

MAX. SURFACE INJECTION PRESSURE: 2000 If Disposal Well, MAX. INJECTION VOL. LIMIT: 48500000

CONDITIONS OF APPROVAL, IF ANY:

<u>COA Type</u>	<u>Description</u>
	Operator is required to file a Form 4-Sundry Notice with analysis of injected water collected one year after the initial injection date. Minimum analyses are TDS, major cations, and major anions. Data may also be submitted to COGCC Database in Electronic Data Deliverable (EDD) format. After the initial 1-year analysis, the analysis shall be repeated at five (5) year intervals.
	Operator is required to perform additional Mechanical Integrity Tests ("MITs") at five (5) year intervals starting from the first test date reported here. If the downhole well configuration is changed at any time a new MIT must be passed before the well is returned to injection. All injection well MITs must be witnessed by COGCC.
	Within thirty (30) days of the commencement of injection operator is required to file a Form 5A-Completed Interval Report: a. Notifying COGCC of the initial injection date, b. Updating COGCC on the status of the well and formation(s) or injection zone(s) used for Form 7 reporting, and c. Clarifying Tubing and Packer information.
	An Automatic shut off device shall be in place and functional so, that if pressure exceeds 300 psig on the annulus between the seven inch (7") OD casing and injection tubing, the injection pump will shut down and cease to operate. Note: Similar COA in Form 2 # 401166392 mentions 2-3/8" tubing, actual tubing is 2-7/8". The intent of this COA it to have an Automatic shut off device monitoring the tubing-casing annulus. Functionality of Shut off device shall be tested at least annually and operator shall be able to provide record of test on request. If possible test should be conducted during routine annual UIC inspection.
	Maximum Surface Injection Pressure will remain unchanged from 2000 psi as recorded in Doc # 600281.
	Well must be plugged and abandoned within 6 months of reaching total injection volume of 48,500,000 bbls as outlined in Maximum Injection Volume Statement Document # 2618721 attached to Form 33-Intent Doc # 401174870.

Attachment Check List

<u>Att Doc Num</u>	<u>Name</u>
401440457	FORM 33-SUBSEQUENT-SUBMITTED
401441309	WELLBORE DIAGRAM-CURRENT
401441903	SURFACE OWNER LIST/MAP
401446759	SURFACE FACILITY DIAGRAM
401447295	MINERAL OWNERS LIST
401447296	SURFACE OWNERS MAP

Total Attach: 7 Files

General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
UIC	Operator may return the well to injection.	11/03/2017
UIC	Lewis Shale being added to existing UIC Disposal Facility #150234 in Mesaverde (= Menefee and Point Lookout Fms.) as precaution in case squeeze perforations leak in the future. Lewis Shale is not expected to accept much if any water; squeeze perforations are closed and the formation is a shale.	11/03/2017

Total: 2 comment(s)