

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCD Artesia

FORM APPROVED
Budget Bureau No. 1004-0137
Expires: July 31, 2010

SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE - Other instructions on page 2.

1. Type of Well
☐ Oil ☒ Gas ☐

2. Name of Operator
Lynx Petroleum Consultants, Inc.

3a. Address
P.O. Box 1708, Hobbs, NM 88241

3b. Phone No. (include area code)
575-392-3575

4. Location of Well (Footage, Sec., T.R.M., or Survey Description)
1980' FSL & 2310' FWL, Sec. 13, T19S, R31E, Unit K

5. Lease Serial No.
NMNM0309377A

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement, Name and/or No.

8. Well Name and No.
HJ 13 Federal #1

9. API Well No.
30-015-23781

10. Field and Pool, or Exploratory Area
Bone Spring
Lusk; B.S. WEST 4480?

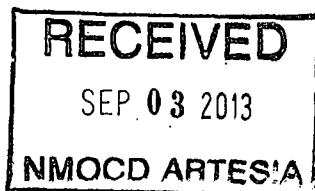
11. County or Parish, State
Eddy Co., NM

12. CHECK APPROPRIATE BOX(es) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input checked="" type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

SEE ATTACHED PROCEDURE TO PLUGBACK TO THE BONE SPRING.



**SUBJECT TO LIKE
APPROVAL BY STATE**

**SEE ATTACHED FOR
CONDITIONS OF APPROVAL**

14. I hereby certify that the foregoing is true and correct Name (Printed/Typed)
DEBBIE MCKELVEY

Title AGENT 575-392-3575

Signature

Date 8/15/13

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

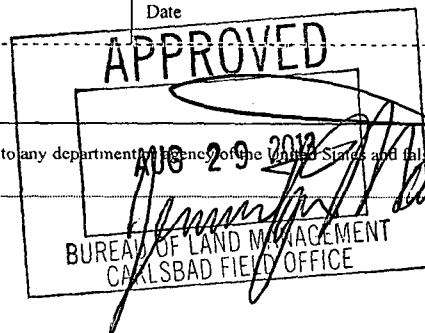
Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States and false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction

(Instruction on page 2)

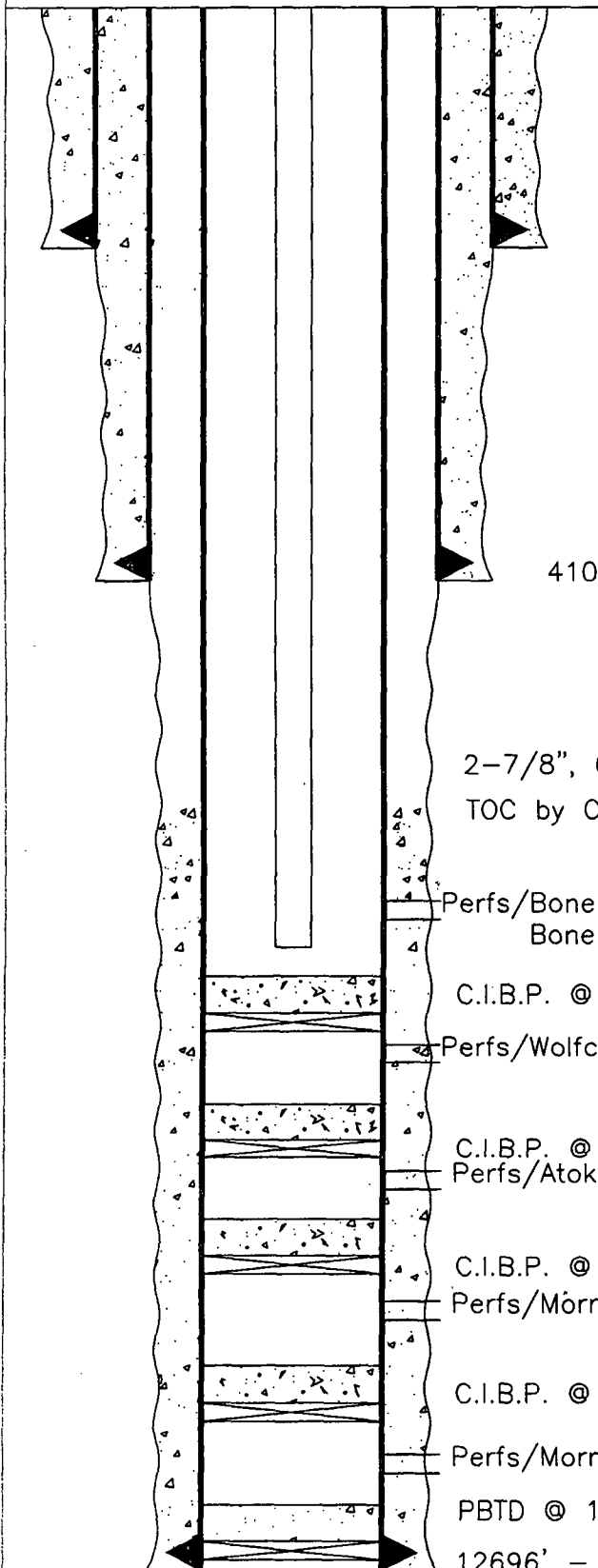


Bone Spring Recompletion Procedure

- See
COA
1. MIRU well servicing unit. Kill well if necessary w/2% KCL TFW. ND wellhead. NU 5000# hydraulic BOP with 7/16" 5000# flanged connections.
 2. Release production packer at 10214'. Load and circulate hole w/230 bbls. 2% KCL TFW. TOOH laying down 2-3/8" tubing.
 3. RU Schlumberger wireline unit. PU 5-1/2" CIBP. TIH and tag cement plug @ 11,715'. Pull up and set CIBP @ 10380'. Spot ~~35' cement on top of plug~~. WOC 4 hours and tag plug.
 4. Verify that 8-5/8" x 5-1/2" annulus is loaded w/fluid at surface. Load 5-1/2" casing w/2% KCL TFW and test to 4000 psig.
 5. Perforate 2nd Bone Spring sand w/2 JSPF (42 holes) from 9174'-94'.
 6. Breakdown Bone Spring perms w/2% KCL water and establish injection rate. Predicted breakdown pressure is 2600 psig. If no breakdown w/maximum pressure of 4000 psig proceed to next step. **If breakdown is successful proceed to Step 10.**
 7. PU 5-1/2" treating packer on 2-7/8" tubing. Test tubing in hole to 5000 psig.
 8. Spot 100 gals. 7-1/2% HCL-NE-FE acid across perforations 9174'-94'. Pull up and set packer at +/- 9000'. Breakdown and displace acid w/2% KCL TFW establishing injection rate. Record ISIP.
 9. Release treating packer and TOOH.
 10. ND BOP. NU and test frac stack.
 11. RU BakerHughes. Frac 2nd Bone Spring sand per procedure.
 12. RU Schlumberger wireline unit. TIH w/5-1/2" composite flow through bridge plug. Set plug at +/- 9000'. Perforate 1st Bone Spring sand 8513'-16', 8520'-30', 8534'-39' w/2 JSPF (42 holes total).
 13. RU BakerHughes. Frac 1st Bone Spring sand per procedure.
 14. RU flowback and test service. Flowback well until dead.
 15. ND Frac stack. NU BOP.
 16. RU reverse unit. PU 4-3/4" bit, DCs, and 2-7/8" tubing. TIH and drill out sand and composite bridge plug set in step 12. Circulate hole clean. TOOH.
 17. RU and run 2-7/8" production tubing w/EOT at +/-9200'.
 18. ND BOP. NU wellhead. Run pump and rods. Space out and hang well on.
 19. Return to production.

PROPOSED BONE SPRING RECOMPLETION
08/01/13

Elevation: 3558GL KB: +18'



17-1/2" Hole
604' - 13 3/8", K-55, 54.5#, ST&C Casing
Cemented w/625 sxs. Circulated to Surf.

12-1/4" Hole
4101' - 8-5/8", K-55, 32#, ST&C Casing.
Cemented w/1770 sxs. Circulated to Surface

7-7/8" Hole
2-7/8", 6.5#/ft, N-80, EUE Tbg. @ +/-9200'
TOC by CBL 8360'

Perfs/Bone Spring 8513'-16', 8520'-30', 8534'-39'
Bone Spring 9174'-94'

C.I.B.P. @ 10380' w/35' Cement on Top

Perfs/Wolfcamp 10418'-24', 10436'-40', 10459'-74'

C.I.B.P. @ 11750' w/35' Cement on Top
Perfs/Atoka 11788'-810'

C.I.B.P. @ 11910' w/35' Cement on Top
Perfs/Morrow 11939'-54'

C.I.B.P. @ 12300' w/35' Cement on Top

Perfs/Morrow 12341'-97', 12595'-608', 12623'-37'

PBTD @ 12654'

12696' - 5 1/2", 17#, N80
Cement w/1250 sxs. Class 'H'

T.D. @ 12697'

Lynx Petroleum Cons.
Federal 'HJ' 13 No. 1
1980' FSL & 2310' FWL
Sec. 13, T-19S, R-31E
Eddy County, N.M.



HJ 13 Federal #1

Debbie McKelvey <debmckelvey@earthlink.net>

Wed, Aug 28, 2013 at 3:30 PM

Reply-To: Debbie McKelvey <debmckelvey@earthlink.net>

To: jamason@blm.gov

Jennifer,

As discussed, the Wolfcamp completion on the subject well was non-productive.

Thank you.

Debbie McKelvey, Agent

Lynx Petroleum Consultants, Inc.

575-392-3575

HJ 13 Federal 1
30-015-23781
Lynx Petroleum Consultants, Inc.
August 29, 2013
Conditions of Approval

Notify BLM at 575-361-2822 a minimum of 24 hours prior to commencing work.

Work to be completed by November 29, 2013.

- 1. Tag cement at 11,715'. If tag is shallower than 11,715' operator shall pump 25 sx class H cement and tag.**
- 2. Operator shall set CIBP at 11,380' and place 215' of cement on top. Tag at approximately 11,165'.**
- 3. Must conduct a casing integrity test before perforating and fracturing. Submit results to BLM. The CIT is to be performed on the production casing to max treating pressure. Notify BLM if test fails.**
- 4. Before casing or a liner is added or replaced, prior BLM approval of the design is required. Use notice of intent Form 3160-5.**
- 5. Surface disturbance beyond the originally approved pad must have prior approval.**
- 6. Closed loop system required.**
- 7. All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of work over operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area. Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.**
- 8. Operator to have H2S monitoring equipment on location.**
- 9. A minimum of a 3000 (3M) BOP to be used. All blowout preventer (BOP) and related equipment (BOPE) shall comply with reasonable well control requirements. A two ram system with a blind ram and a pipe ram designed for the size of the work string shall be adequate. Tapered work strings will require an additional pipe ram. The manifold shall comply with Onshore Oil and Gas Order #2 Attachment I (3M Diagrams of Choke Manifold Equipment). The accumulator system shall have an immediately available power source to close the rams and retain 200 psi above pre-charge. The pre-charge test shall follow requirements in Onshore Order #2.**

10. Subsequent sundry required detailing work done and completion report for the new formation. Operator to include well bore schematic of current well condition when work is complete.

11. See attached for general requirements.

JAM 082913

BUREAU OF LAND MANAGEMENT
Carlsbad Field Office
620 East Greene Street
Carlsbad, New Mexico 88220
575-234-5972

General Requirements for Plug Backs

Failure to comply with the following Conditions of Approval may result in a Notice of Incidents of Noncompliance (INC) in accordance with 43 CFR 3163.1.

1. Plugging operations shall commence within ninety (90) days from this approval.

If you are unable to plug back the well by the 90th day provide this office, prior to the 90th day, with the reason for not meeting the deadline and a date when we can expect the well to be plugged back. Failure to do so will result in enforcement action.

2. **Notification:** Contact the appropriate BLM office at least 24 hours prior to the commencing of any plug back operations. For wells in Eddy County, call 575-361-2822.

3. **Blowout Preventers:** A blowout preventer (BOP), as appropriate, shall be installed before commencing any plugging operation. The BOP must be installed and maintained as per API and manufacturer recommendations. The minimum BOP requirement is a 2M system for a well not deeper than 9,090 feet; a 3M system for a well not deeper than 13,636 feet; and a 5M system for a well not deeper than 22,727 feet.

4. **Mud Requirement:** Mud shall be placed between all plugs. Minimum consistency of plugging mud shall be obtained by mixing at the rate of 25 sacks (50 pounds each) of gel per 100 barrels of **brine** water. Minimum nine (9) pounds per gallon.

5. **Cement Requirement:** Sufficient cement shall be used to bring any required plug to the specified depth and length. Any given cement volumes on the proposed plugging procedure are merely estimates and are not final. Unless specific approval is received, no plug except the surface plug shall be less than 25 sacks of cement. Any plug that requires a tag will have a minimum WOC time of 4 hours.

In lieu of a cement plug across perforations in a cased hole (not for any other plugs), a bridge plug set within 50 feet to 100 feet above the perforations shall be capped with 25 sacks of cement.

Before pumping cement on top of CIBP, tag will be required to verify depth. Based on depth, a tag of the cement may be deemed necessary.

Unless otherwise specified in the approved procedure, the cement plug shall consist of either **Neat Class "C"**, for up to 7,500 feet of depth or **Neat Class "H"**, for deeper than 7,500 feet plugs.

6. **Subsequent Plug back Reporting:** Within 30 days after plug back work is completed, file one original and three copies of the Subsequent Report, Form 3160-5 to BLM. The report should give in detail the manner in which the plug back work was carried out, the extent (by depths) of cement plugs placed, and the size and location (by depths) of casing left in the well. **Show date work was completed.**

7. **Trash:** All trash, junk and other waste material shall be contained in trash cages or bins to prevent scattering and will be removed and deposited in an approved sanitary landfill. Burial on site is not permitted.

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A closed-loop system will be utilized during the plugback operations.

Accepted for record
NMOCD

9/3/2013



14. I hereby certify that the foregoing is true and correct Name (Printed/Typed)
DEBBIE MCKELVEY

Title AGENT 575-392-3575

Signature

Debbie McKelvey

Date 8/15/13

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