

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

RECEIVED

JUN 07 2010

FORM APPROVED  
OMB NO. 1004-0135  
Expires: July 31, 2010

EC

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 reverse side.

1. Type of Well <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other	2. Name of Operator CHESAPEAKE OPERATING, INC.	Contact: LINDA GOOD E-Mail: linda.good@chk.com	5. Lease Serial No. NMLC030133B
3a. Address P.O. BOX 18496 OKLAHOMA CITY, OK 73154-0496	3b. Phone No. (include area code) Ph: 405-935-4275	9. API Well No. 30-025-25699	10. Field and Pool, or Exploratory LANGLIE <i>Devonian Gas</i>
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 28 T22S R36E NENW 990FNL 2310FWL	11. County or Parish, and State LEA COUNTY, 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 checked="" type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input 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 recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

ATTENTION: DUNCAN WHITLOCK

Chesapeake, respectfully, requests permission to plug &amp; abandon this well per the following procedure:

1. Notify the BLM 24 hours in advance prior to commencing plug and abandonment operations.
2. Hold PJSA meeting prior to beginning work each morning and as required for specific operations.
3. Prep location. Check anchors and clean area for workover.
4. Rack and tally 297 joints of 2-7/8", 6.5#, N-80 workstring.

RECLAMATION PROCEDURE  
ATTACHEDSEE ATTACHED FOR  
CONDITIONS OF APPROVAL

14. I hereby certify that the foregoing is true and correct. Electronic Submission #86918 verified by the BLM Well Information System For CHESAPEAKE OPERATING, INC., sent to the Hobbs	
Name (Printed/Typed) LINDA GOOD	Title SR. REGULATORY COMPLIANCE SPEC
Signature (Electronic Submission)	Date 05/25/2010

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By <i>[Signature]</i> <i>EGG</i> 6/7/10	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	APPROVED JUN 4 2010 /s/ Dustin Winkler	

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 any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

\*\* OPERATOR-SUBMITTED \*\* OPERATOR-SUBMITTED \*\* OPERATOR-SUBMITTED \*\*

**Additional data for EC transaction #86918 that would not fit on the form**

**32. Additional remarks, continued**

5. MIRU workover rig. ND WH. NU and test 10k BOP.
6. Load well with plugging mud and pressure up to 500# and test for leak off.
7. Spot a 100' (25 sxs minimum) cement plug @ 7,837'. WOC and tag plug. POH. (Top of Abo @ 7,837')
8. Spot a 100' (25 sxs minimum) cement plug @ 6,250'. WOC and tag plug. (9-5/8" Casing Shoe @ 6,200')
9. Perforate casing w/4 squeeze holes @ 4,554' and squeeze a 100' (25 sxs minimum) cement plug inside and out. WOC and tag plug. (DV Tool @ 4,504')
10. Perforate casing w/4 squeeze holes @ 1,475' and squeeze a 100' (25 sxs minimum) cement plug inside and out. WOC and tag plug. (13-3/8" Casing Shoe @ 1,425')
11. Perforate casing w/4 squeeze holes @ 81' and squeeze a cement plug inside and out. Circulate to surface. Top off casing. POH.
12. RDMO. Install dry hole marker and cut off dead man. Restore location.

ATTACHMENTS: Actual & Proposed Wellbore Diagram & Detailed Procedure.

(CHK PN 891473)

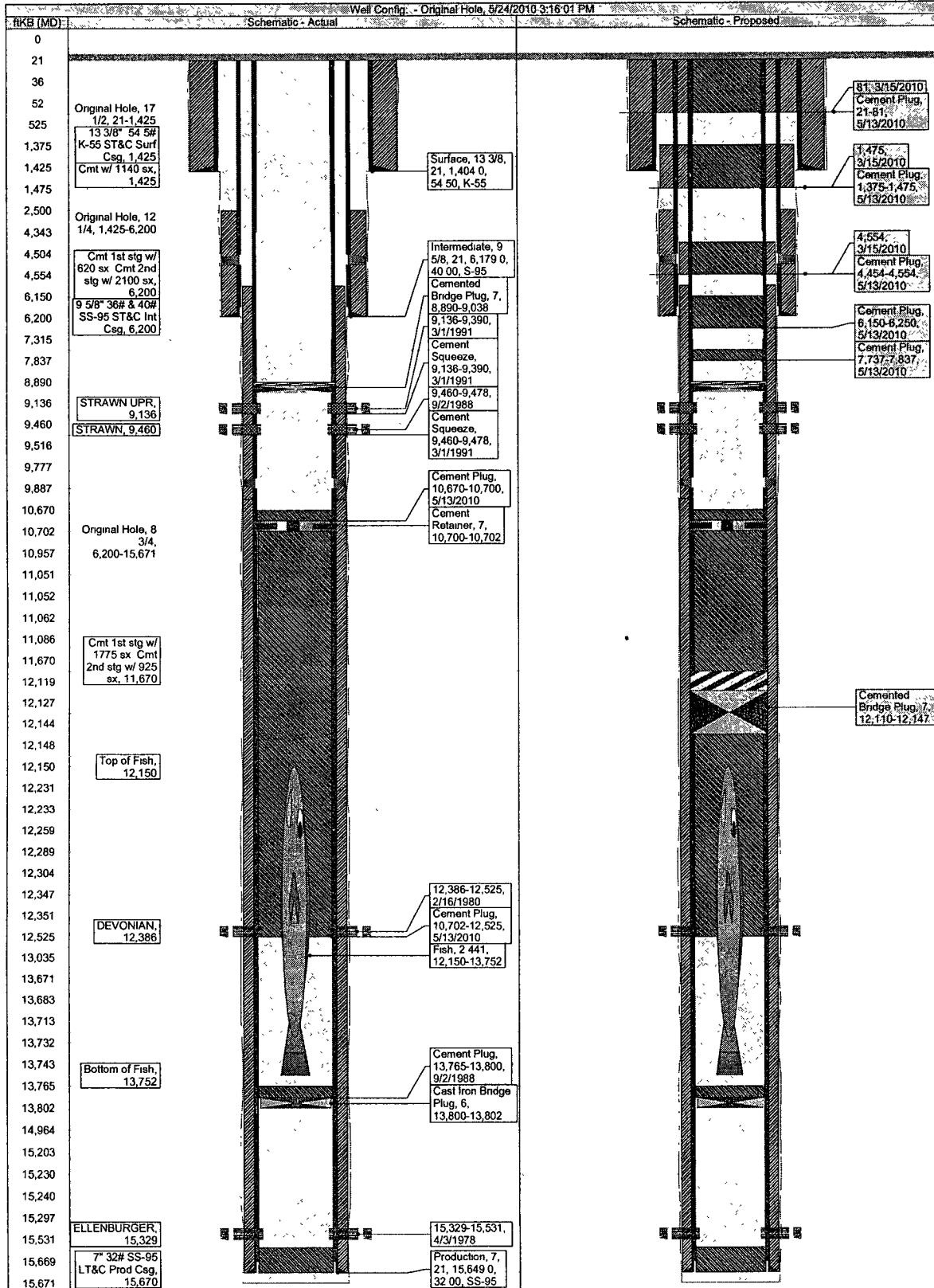


# Proposal - Workover

## LANGLEY DEEP 1

Field: Langley (Devonian)  
County: LEA  
State: NEW MEXICO  
Location: SEC 28, 22S-36E, 990 FNL & 2310 FWL  
Elevation: GL 3,516.00 KB 3,537.00  
KB Height: 21.00

Spud Date: 11/10/1977  
Initial Compl. Date:  
API #: 3002525699  
CHK Property #: 891473  
1st Prod Date: 4/1/1978  
PBTD: Original Hole - 13765.0  
TD: 15,671.0





**Langley Deep #1  
Plug and Abandonment  
Lea County, NM**

**Current Wellbore Information**

TD: 15,671' PBD: 13,765'

**Casing Data**

Casing	OD	Weight	Grade	Depth Set	TOC
Surface	13-3/8"	54.5#	K-55	1,425'	Surface
Intermediate	9-5/8"	40#	S-95	6,200'	2,500'
Production	7"	32#	SS-95	15,670'	6,125'

**Pressure and Dimensional Data**

Size	Weight	Grade	Drift	Collapse	Burst	80% Burst
13-3/8"	54.5#	K-55	12.459	1,130	2,730	2,184
9-5/8"	40#	S-95	8.679	4,230	6,820	5,456
7"	32#	SS-95	5.969	10,400	10,760	8,608

**Existing Perforations**

Perfs	Top Perf	Bottom Perf	Status
Strawn Up	9,136'	9,390'	Open
Strawn	9,460'	9,478'	Open
Devonian	12,386'	12,525'	Open
Ellenburger	15,329'	15,531'	Abandoned

**Other In Hole**

OIH	Size	Location
DV Tool	9-5/8"	4,504'
CIBP w/ cement	7"	8,890'
DV Tool	7"	9,883'
Cement Retainer	7"	10,700'
CIBP w/ cement	7"	12,110'
CIBP	7"	13,800'
Fish	2-7/8" Tubing	12,150'

**Formation Tops**

Formation	Location
T. Abo	7,837'
T. Upper Wolfcamp	8,208'
T. Lower Wolfcamp	9,048'
T. Penn Strawn	9,380'
T. Atoka	10,243'
T. Morrow	10,649'
T. Barnett	11,125'
T. Woodford	11,977'
T. Devonian	12,279'
T. Silurian	12,947'
T. Fusselman	13,761'
T. Montoya	14,088'
T. Simpson	14,490'
T. McKee	14,726'
T. Ellenburger	15,250'

GL: 3,516' KB: 21' KB Height: 3,537'

**Procedure**

1. Notify the BLM 24 hours in advance prior to commencing plug and abandonment operations.
2. Hold PJSA meeting prior to beginning work each morning and as required for specific operations.
3. Prep location. Check anchors and clean area for workover.
4. Rack and tally 297 joints of 2-7/8", 6.5#, N-80 workstring.
5. MIRU workover rig. ND WH. NU and test 10k BOP.
6. Load well with plugging mud and pressure up to 500# and test for leak off.
7. Spot a 100' (25 sxs minimum) cement plug @ 7,837'. WOC and tag plug. POH. (Top of Abo @ 7,837')
8. Spot a 100' (25 sxs minimum) cement plug @ 6,250'. WOC and tag plug. (9-5/8" Casing Shoe @ 6,200')
9. Perforate casing w/ 4 squeeze holes @ 4,554' and squeeze a 100' (25 sxs minimum) cement plug inside and out. WOC and tag plug. (DV Tool @ 4,504')
10. Perforate casing w/ 4 squeeze holes @ 1,475' and squeeze a 100' (25 sxs minimum) cement plug inside and out. WOC and tag plug. (13-3/8" Casing Shoe @ 1,425')
11. Perforate casing w/ 4 squeeze holes @ 81' and squeeze a cement plug inside and out. Circulate to surface. Top off casing. POH.
12. RDMO. Install dry hole marker and cut off dead man. Restore location.

#### **Contacts**

Production Foreman  
Greg Skiles  
Office: 575-391-1462  
Cell: 575-631-1663

Asset Manager  
Kim Henderson  
Office: 405-935-8583  
Cell: 405-312-1840

Chesapeake Operating, Inc.  
NMLC-030133-B: Langley Deep #1  
API: 30-025-25699  
Lea County, New Mexico

RE: Plugging and Abandonment Requirements, Conditions of Approval

1. OK
2. OK
3. OK
4. OK
5. OK
6. OK
- 6a. Spot a 180' plug (minimum 25sx) of Class H from 8260'-8080'. (Wolfcamp)
7. Move: Spot from 7900'-7720'. Cement to be Class H – Otherwise OK (Perfs)
8. Plug to be a minimum 160' – Otherwise OK (Casing shoe)
- 8a. Perf and squeeze from 5960'-5800' (minimum 25sx) in and out of casing. WOC and tag at 5800' or shallower. If injection rate cannot be established, spot cement 50' below perfs. (Glorietta)
9. Plug to be a minimum 150' in length – Otherwise OK (DV Tool)
- 9a. Perf and squeeze from 3230-3100' (minimum 25sx) in and out of casing. WOC and tag at 3100' or shallower. (Yates – BOS)
- 9b. Perf and squeeze from 1800-1680' (minimum 25sx) in and out of casing. WOC and tag at 1680' or shallower. (TOS)
10. OK (Casing shoe)
11. OK (Surface)
12. Verify cement to surface in all annuluses – Otherwise OK
13. Submit a subsequent report to the BLM.

See attached standard COAs.

DHW 052710

## **BUREAU OF LAND MANAGEMENT**

**Carlsbad Field Office  
620 East Greene Street  
Carlsbad, New Mexico 88220  
575-234-5972**

### **Permanent Abandonment of Federal Wells Conditions of Approval**

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 the approval date of this Notice of Intent to Abandon.

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

**The rig used for the plugging procedure cannot be released and moved off without the prior approval of the authorized officer. Failure to do so may result in enforcement action.**

2. **Notification:** Contact the appropriate BLM office at least 24 hours prior to the commencing of any plugging operations. For wells in Chaves and Roosevelt County, call 575-627-0272; Eddy County, call 575-361-2822; Lea County, call 575-393-3612.

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. In lieu of a cement plug in a cased hole, a bridge plug set within 50 feet to 100 feet above the perforations shall be capped with 25 sacks of cement. If a bailer is used to cap this plug, 35 feet of cement shall be sufficient. Any plug that requires a tag will have a minimum WOC time of 4 hours.

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. Dry Hole Marker: All casing shall be cut-off at the base of the cellar or 3 feet below final restored ground level (whichever is deeper). **The BLM is to be notified when the wellhead is cut off to verify that cement is to surface in the casing and all annuluses.** The well bore shall then be capped with a 4-inch pipe, 10-feet in length, 4 feet above ground and embedded in cement. The following information shall be permanently inscribed on the dry hole marker: well name and number, name of the operator, lease serial number, surveyed location (quarter-quarter section, section, township and range or other authorized survey designation acceptable to the authorized officer such as metes and bounds).

7. Subsequent Plugging Reporting: Within 30 days after plugging work is completed, file one original and five copies of the Subsequent Report of Abandonment, Form 3160-5 to BLM. The report should give in detail the manner in which the plugging 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 well was plugged.**

8. 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.

Following the submission and approval of the Subsequent Report of Abandonment, surface restoration will be required. See attached reclamation procedure.

DHW 112309





# United States Department of the Interior

## BUREAU OF LAND MANAGEMENT

Carlsbad Field Office  
620 E. Greene St  
Carlsbad, New Mexico 88220-6292  
[www.blm.gov/nm](http://www.blm.gov/nm)



In Reply Refer To: 1310

### Interim Reclamation Procedures

**Reclamation Objective:** Oil and gas development is one of many uses of the public lands and resources. While development may have a short- or long-term effect on the land, successful reclamation can ensure the effect is not permanent. During the life of the development, all disturbed areas not needed for active support of production operations should undergo "interim" reclamation in order to minimize the environmental impacts of development on other resources and uses.

Interim reclamation consists of minimizing the footprint of disturbance by reclaiming all portions of the well site not needed for production operations. The portions of the cleared well site not needed for operational and safety purposes are recontoured to a final or intermediate contour that blends with the surrounding topography as much as possible. Sufficient level area remains for setup of a workover rig and to park equipment. Topsoil is respread over areas not needed for all-weather operations. Production facilities should be clustered to maximize the opportunity for interim reclamation. In order to inspect and operate the well or complete workover operations, it may be necessary to drive, park, and operate on restored, interim vegetation within the previously disturbed area. This is generally acceptable provided damage is repaired and reclaimed following use.

To reduce final reclamation costs; maintain healthy, biologically active topsoil; and to minimize habitat, visual, and forage loss during the life of the well, all salvaged topsoil should be spread over the area of interim reclamation, rather than stockpiled.

1. The Application for Permit to Drill or Reenter (APD, Form 3160-3), Surface Use Plan of Operations must include adequate measures for stabilization and reclamation of disturbed lands. Oil and Gas operators must plan for reclamation, both interim and final, up front in the APD process as per Onshore Oil and Gas Order No. 1.
2. For wells and/or access roads not having an approved plan, or an inadequate plan for surface reclamation (either interim or final reclamation), the operator must submit a proposal describing the procedures for reclamation. For interim reclamation, the appropriate time for submittal would be when filing the Well Completion or Recompletion Report and Log (Form 3160-4). Interim reclamation is to be completed within 6 months of well completion.

3. If you have an approved Surface Use Plan of Operation and/or an approved Sundry Notice, you are free to proceed with interim reclamation as per approved APD or Sundry Notice. If you have issues or concerns, contact a BLM specialist to assist you. It would be in your interest to have a BLM specialist look at the location and access road prior to the removal of reclamation equipment to ensure that it meets BLM objectives. Upon conclusion submit a Form 3160-5, Subsequent Report of Reclamation. This will prompt a specialist to inspect the location to verify work was completed as per approved plans.
4. The approved Subsequent Report of Reclamation will be your notice that the native soils, contour and seedbed have been reestablished. If the BLM objectives have not been met the operator will be notified and corrective actions may be required.
5. It is the responsibility of the operator to monitor these locations and/or access roads until such time as the operator feels that the BLM objective has been met.

If there are any questions, please feel free to contact any of the following specialists:

Jim Amos  
Supervisory Environmental Protection Specialist  
575-234-5909, 575-361-2648 (Cell)

Cody Layton  
Natural Resource Specialist  
575-234-5959

Terry Gregston  
Environmental Protection Specialist  
575-234-5958

Trishia Bad Bear  
Natural Resource Specialist  
575-393-3612

Bobby Ballard  
Environmental Protection Specialist  
575-234-2230

Todd Suter  
Surface Protection Specialist  
575-234-5987

Randy Rust  
Environmental Protection Specialist  
575-234-5943

Doug Hoag  
Civil Engineering Technician  
575-234-5979

Linda Denniston  
Environmental Protection Specialist  
575-234-5974

Jennifer Van Curen  
Environmental Protection Specialist  
575-234-5905

Justin Frye  
Environmental Protection Specialist  
575-234-5922