State of New Mexico
Energy, Minerals and Natural Resources Department

Susana Martinez
Governor

David Martin
Cabinet Secretary

Brett F. Woods, Ph.D.
Deputy Cabinet Secretary

David R. Catanach, Division Director
Oil Conservation Division

New Mexico Oil Conservation Division approval and conditions listed below are made in accordance with OCD Rule 19.15.7.11 and are in addition to the actions approved by BLM on the following 3160-4 or 3160-5 form.

Operator Signature Date: 8/19/15
Well information:

API WELL #	Well Name	Well #	Operator Name	Type	Stat	County	Surf_Owner	UL	Sec	Twp	N/S	Rng	W/E
30-045-30013-00-00	SUNRAY E	002B	BURLINGTON RESOURCES OIL & GAS COMPANY LP	G	A	San Juan	F	E	9	30	N	10	W

Application Type:

☐ P&A ☐ Drilling/Casing Change ☐ Location Change

☒ Recomplete/DHC (For hydraulic fracturing operations review EPA Underground injection control Guidance #84)

☐ Other:

Conditions of Approval:

Perform a pressure test between the Dakota perforations and Mesa Verde perforations to ensure the communication was due to a faulty packer and not a casing issue.

Brandon Powell

NMOCD Approved by Signature

8/31/15
Date

1220 South St. Francis Drive • Santa Fe, New Mexico 87505
Phone (505) 476-3460 • Fax (505) 476-3462 • www.emnrd.state.nm.us/ocd

Form 3160-5
(August 2007)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

RECEIVED
AUG 24 2015
Farmington Field Office
Bureau of Land Management

5. Lease Serial No. **SF-077730**

6. If Indian, Allottee or Tribe Name

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.*

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

1. Type of Well
☐ Oil Well ☒ Gas Well ☐ Other

8. Well Name and No. **SUNRAY E 2B**

2. Name of Operator **Burlington Resources Oil & Gas Company LP**

9. API Well No. **30-045-30013**

3a. Address **PO Box 4289, Farmington, NM 87499**

3b. Phone No. (include area code) **(505) 326-9700**

10. Field and Pool or Exploratory Area **BASIN DK / BLANCO MV**

4. Location of Well *(Footage, Sec., T.,R.,M., or Survey Description)* **UL E (SWNW), 1450' FNL & 790' FWL, SEC. 9, T30N, R10W**

11. Country or Parish, State **San Juan , New Mexico**

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

TYPE OF SUBMISSION	TYPE OF ACTION			
☒ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Subsequent Report	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	**REMOVE PACKER**
☐ Final Abandonment Notice	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	**AND COMMINGLE**

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 recomplete 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 must 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 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.)

Burlington Resources requests permission to remove the packer on the subject well and commingle the MV and DK zones. See attached procedure and current wellbore schematic. DHC approval will be requested from the OCD and approval will be received before the work begins.

OIL CONS. DIV DIST. 3
AUG 28 2015

BLM'S APPROVAL OR ACCEPTANCE OF THIS ACTION DOES NOT RELIEVE THE LESSEE AND OPERATOR FROM OBTAINING ANY OTHER AUTHORIZATION REQUIRED FOR OPERATIONS ON FEDERAL AND INDIAN LANDS

14. I hereby certify that the foregoing is true and correct. Name *(Printed/Typed)* **Patsy Clugston**

Title **Staff Regulatory Technician**

Signature Patsy Clugston

Date **8/19/2015**

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by Abdelgadir Elmadani

Title PE

Date 8/24/15

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 FFO

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.

(Instruction on page 2)

NMOCD

ConocoPhillips
SUNRAY E 2B
WO - Commingles

Lat 36° 49' 45.588" N Long 107° 53' 39.876" W

PROCEDURE

Before RU, run slickline to check for and remove any downhole equipment. If an obstruction is found and cannot be recovered, set a locking 3-slip-stop above the obstruction in the tubing.

1. Hold pre-job safety meeting. Comply with all NMOCD, BLM, and COP safety and environmental regulations. Test rig anchors prior to moving in rig.

2. MIRU workover rig. Check casing, tubing, and bradenhead pressures and record them in WellView. **If there is pressure on the BH, contact Wells Engineer.**

3. Remove existing piping on casing valve. RU blow lines from casing valves and begin blowing down casing pressure. Kill well down casing (MV) and long string (DK) with 2% KCl water as necessary. Ensure well is dead or on vacuum.

4. ND wellhead and NU BOPE with annular, offset spool, and double rams for 2-3/8" tubing. Pressure and function test BOP to 250 psi low and 1,000 psi over SICP high to a maximum of 2,000 psi held and charted for 10 minutes per COP Well Control Manual. PU and remove split hanger or seal sleeve on short string (MV).

5. TOOH and LD 1-1/2" IJ short string per pertinent data sheet. Note any bad joints and record findings in WellView. **Make note of corrosion, scale, or paraffin and save a sample to give to CIC/engineering for further analysis.**

6. Ensure barriers are holding. ND annular, remove offset spool and NU annular on double preventer. Function test BOP. PU and remove tubing hanger.

7. TOOH and LD 1-1/2" EUE long string per pertinent data sheet. Note any bad joints and record findings in WellView. **Make note of corrosion, scale, or paraffin and save a sample to give to CIC/engineering for further analysis.**

8. PU packer plucker and 6 3-1/2" drill collars on 2-3/8" tubing and RIH to Model D packer at 5728'. Sting into and mill packer. TOOH and LD drill collars, packer plucker, and packer. **If possible, evaluate MV water production.**

9. PU 4-3/4" string mill and bit and CO to PBTD at 7,639' using the air package. TOOH. LD mill and bit. If unable to CO to PBTD, contact Wells Engineer to inform how much fill was left and confirm/adjust landing depth.

10. TIH with tubing using Tubing Drift Procedure (detail below).

Tubing Wt./Grade:	4.7#, J-55
Tubing Drift ID:	1.901"
Land Tubing At:	7,530'
KB:	15'

Tubing and BHA Description

1	2-3/8" Expendable Check
1	2-3/8" (1.78" ID) F-Nipple
1	2-3/8" Tubing Joint
1	2-3/8" Pup Joint (2' or 4')
+/- 238	2-3/8" Tubing Joints
As Needed	2-3/8" Pup Joints
1	2-3/8" Tubing Joint

11. Ensure barriers are holding. ND BOPE, NU Wellhead. Pressure test tubing slowly with an air package as follows: pump 3 bbl. pad, drop steel ball, pressure tubing up to 500 psi, and bypass air. Monitor pressure for 15 min., then complete the operation by pumping off the expendable check. Note in WellView the pressure in which the check pumped off. Purge air as necessary. Notify the MSO that the well is ready to be turned over to Production Operations. RDMO.

Tubing Drift Procedure

PROCEDURE

1. Set flow control in tubing. With air, on location, use expendable check. With no air on location, use wire line plug.

2. RU drift tool to a minimum 70' line. Drift tool will have an OD of at least the API drift specification of the drift diameter of the tubing to be drifted, and will be at least 15" long. The tool will not weigh more than 10# and will have an ID bore the length of the tool, so fluids may be pumped through the tool if it becomes stuck.

3. Drop the tool into the tubing string and retrieve it after every 2 joints of tubing ran in hole. If any resistance to the tool movement is noticed, going in or out, that joint will be replaced.

NOTE: All equipment must be kept clean and free of debris. The drift tool will be measured with calipers before each job, to ensure the OD is the correct size for the tubing being checked. The maximum allowable wear of the tool is 0.003".

ConocoPhillips

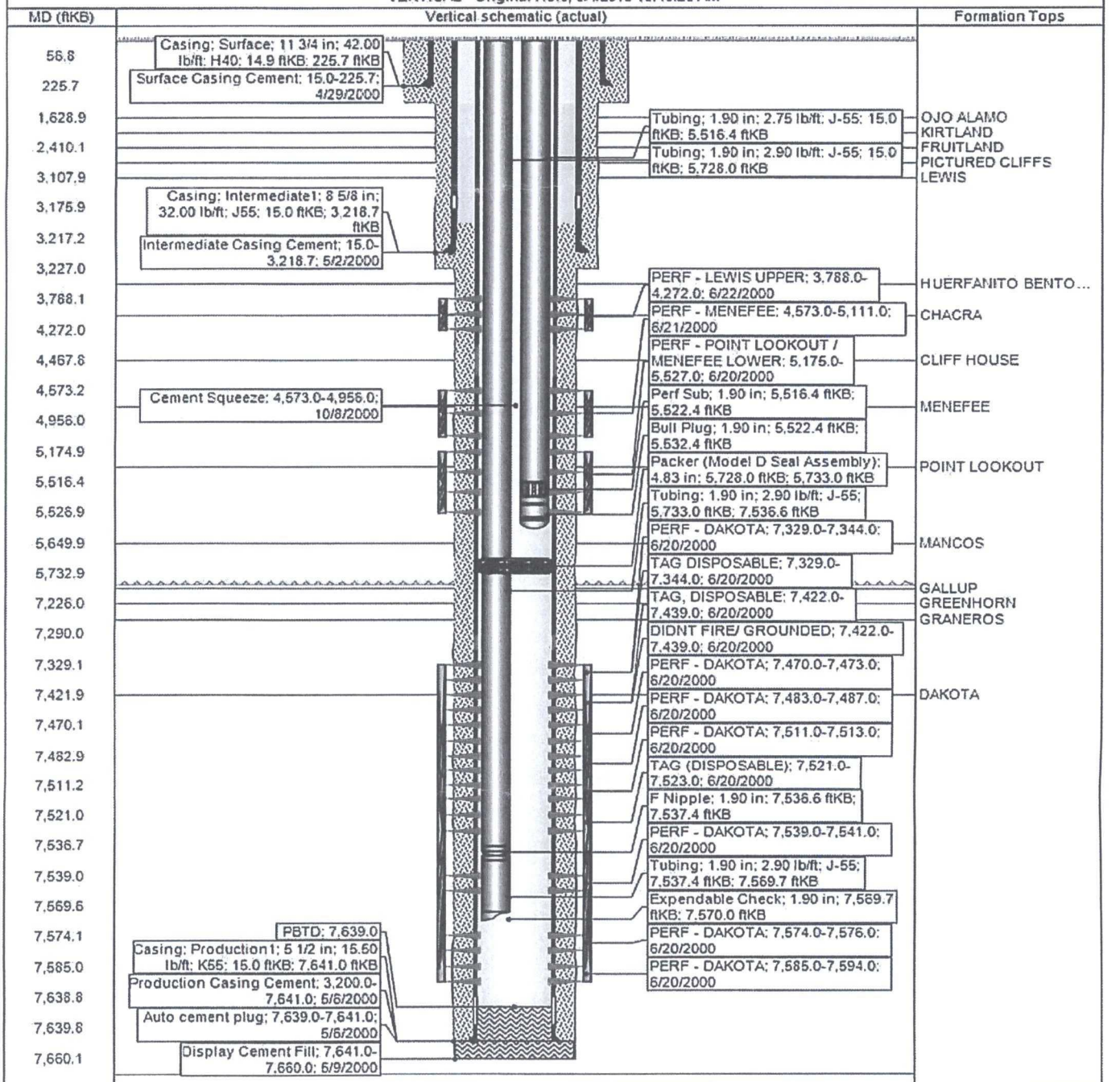
Schematic - Current

SUNRAY E #2B

District	Field Name	API / UWI	County	State/Province
NORTH	BLANCO MESAVERDE (PRORATED GAS	3004530013	SAN JUAN	NEW MEXICO

Original Spud Date	Surface Legal Location	East/West Distance (ft)	East/West Reference	North/South Distance (ft)	North/South Reference
4/28/2000	009-030N-010W-E	790.00	FWL	1,450.00	FNL

VERTICAL - Original Hole, 8/4/2015 10:46:26 AM



Report Printed: 8/4/2015