

Submit 3 Copies To Appropriate District  
Office  
District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
1301 W. Grand Ave., Artesia, NM 88210  
District III  
1000 Rio Brazos Rd., Aztec, NM 87410  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM  
87505

State of New Mexico  
Energy, Minerals and Natural Resources

Form C-103  
Jun 19, 2008

OIL CONSERVATION DIVISION  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

<b>SUNDRY NOTICES AND REPORTS ON WELLS</b> (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)		WELL API NO. <b>30-045-35126</b>
1. Type of Well: Oil Well <input type="checkbox"/> Gas Well <input checked="" type="checkbox"/> Other		5. Indicate Type of Lease STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>
2. Name of Operator <b>Burlington Resources Oil Gas Company LP</b>		6. State Oil & Gas Lease No.
3. Address of Operator P.O. Box 4289, Farmington, NM 87499-4289		7. Lease Name or Unit Agreement Name <b>Mar Vista SWD</b>
4. Well Location Unit Letter <u>N</u> : <u>290</u> feet from the <u>South</u> line and <u>2490</u> feet from the <u>West</u> line Section <u>2</u> Township <u>29N</u> Range <u>11W</u> NMPM San Juan County		8. Well Number #1
11. Elevation (Show whether DR, RKB, RT, GR, etc.) <u>5692' GR</u>		9. OGRID Number <b>14538</b>
		10. Pool name or Wildcat <b>Mesaverde</b>

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

**NOTICE OF INTENTION TO:**  
PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐  
TEMPORARILY ABANDON ☐ CHANGE PLANS ☐  
PULL OR ALTER CASING ☐ MULTIPLE COMPL ☐

**SUBSEQUENT REPORT OF:**  
REMEDIAL WORK ☐ ALTERING CASING ☐  
COMMENCE DRILLING OPNS. ☐ P AND A ☐  
CASING/CEMENT JOB ☐

OTHER: ☒ Conduct Step-rate test

OTHER: ☐

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 1103. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

Burlington Resources Oil & Gas, LP wishes to conduct the step-rate test for the newly drilled SWD. Attached is the completion procedure which includes the Step Rate Test procedure and also a rig-up diagram. Plans are to run the test as soon as OCD approval is obtained.

RCVD NOV 8 '10  
OIL CONS. DIV.

Spud Date: 9/29/10

Rig Released Date: 10/9/10

DIST. 3

I hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that any pit or below-grade tank has been/will be constructed or closed according to NMOCD guidelines ☐, a general permit ☒ or an (attached) alternative OCD-approved plan ☐.

SIGNATURE Patsy Clugston TITLE Sr. Regulatory Specialist DATE 11/5/10

Type or print name Patsy Clugston E-mail address: clugspl@conocophillips.com PHONE: 505-326-9518

**For State Use Only**

Deputy Oil & Gas Inspector,  
District #3

APPROVED BY: Kelly G. Felt TITLE Deputy Oil & Gas Inspector, District #3 DATE NOV 10 2010

Conditions of Approval (if any):

BRADENHEAD AND INTERMEDIATE CASING VALVES MUST BE SHUT IN 24 HOURS PRIOR FOR TESTING PURPOSES. A BRADENHEAD TEST MUST BE CONDUCTED AND WITNESSED BY NMOCD PRIOR TO COMMENCEMENT OF STEP RATE TEST.

\* SEE NOTES IN PROCEDURE \*

# Mar Vista SWD #1

290' FSL & 2490' FWL

Unit N, Section 2, T029N, R011W

San Juan County, NM

Lat: 36° 44' 54.085" N Long: 107° 57' 38.689" W

GL = 5,692' KB = 5,707'

## Proposed Wellbore

### Surface Casing:

13 3/8" 48.0# H-40  
Set @ 227'  
TOC @ Surface Circ 30 bbl

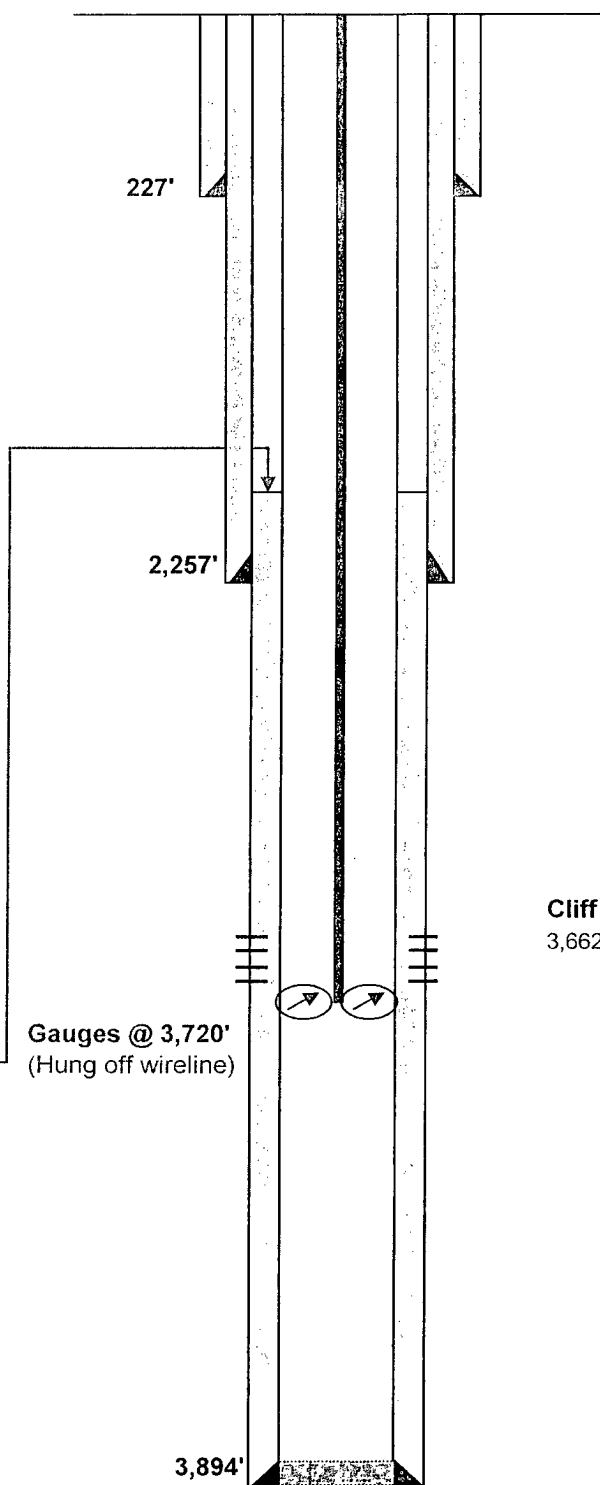
### Intermediate Casing:

9 5/8" 36.0# J-55  
Set @ 2,257'

TOC @ Surface Circ 33 bbl  
DV Tool @ 1634

### Production Casing:

7" 29.0# L-80  
Set @ 3,894'  
TOC @ 970'  
DV Tools @ N/A



Ojo Alamo	691'
Kirtland	856'
Fruitland	1622'
Pictured Cliffs	2003'
Lewis	2160'
Huerfano Bentonite	n/a
Chacra	3005'
Upper Cliff House	n/a
Massive Cliff House	3660'
Menefee	3716'
Point Lookout	nde

### Cliff House

3,662' - 3,714' 176 holes

LTD = 3,891'  
PBSD = 3,849'  
TD = 3,897'

## **DIRECTIONS TO LOCATION**

From the intersection of Hwy 550 and Hwy 64 in Bloomfield, NM, take Hwy 550 north for 2.9 miles. Turn Right (easterly) on Arizona - CR4900 for 1.4 miles. Turn left (northerly) for 0.4 miles. Stay right and go 0.1 miles. Turn left (northwesterly) and go 0.4 miles. Turn right (northeasterly) and go 0.3 miles to beginning of new access on left side of road. Turn left and proceed westerly to location.□□

## **PROJECT OBJECTIVE:**

This is a 2010 1 stage MV completion for a SWD well. The Cliff House will perforated and a step rate test will be performed rigless. A service rig will land tubing and the packer.

## **Perforating/Step Rate Test:**

- 1) Always inspect and photograph location. Make sure date and time appears on photographs. Retain electronic copies of the photos & report any problems to the Farmington office.

- 2) Deliver the following to Location:

1.	4 - 400 bbl Frac Tanks w/PVC caps installed on all valves.
2.	5,000 psig Full Bore Frac Valve.
3.	Pressure gauges.

- 3) Add bactericide to tanks before filling with water.
- 4) Test all water to assure quality. Add one load of fresh water to each tank before adding one load of 20% KCL water. Final concentration should be 2% KCl.
- 5) NU 5,000 psig frac valve. Pressure test casing and frac valve to 4,500 psig and ensure all fittings are rated 5,000 psig or above.
- 6) Open 7" backside casing valve and bleed off any pressure. Monitor annulus pressure during stimulation operations with a transducer.

- 7) Below are materials required for the proposed step rate test:

Stage	Step Rate Test
Fluid Type	Slickwater
Fluid Volume	1,600 bbls

### Step Rate Test

**\*\*NMOCD and BLM need to be notified at least 24 hours prior to step rate test.**

- 8) Hold pre job safety meeting with all parties involved. Fill out and review JSA.
- 9) NU wireline company. Under full lubricator, RIH with casing gun. Select fire perforate Cliff House with Titan PPG-3112-321T, 0.34" hole diameter, 22.4" penetration shots at 4 SPF over the following intervals:

Interval	Footage	SPF	Total Shots
3,714' - 3,702'	12'	4	48
3,694' - 3,662'	32'	4	128

**Total shots = 176**

- 10) Inspect casing gun to make sure all perforations fired.
- 11) Begin by breaking down the perforations with a desired rate of 10 bpm of 15% HCl. Once an injection rate is achieved, begin dropping balls. Note any ball action in WellView. Continue pumping until ball action has stopped and are on bottom.
- 12) Surge well back into pit. This is to ensure balls are off the perforations. Note rate, volume and pressure of surge in WellView.
- 13) RIH with gauge ring and junk basket and retrieve as many balls as possible. Note number retrieved and any evidence of seating in WellView
- 14) MIRU Phoenix Services. RIH tandem pressure gauges and set below the perfs @ 3,720' on braided wireline.
- 14) NU stimulation (or acid) company and prepare for the step rate test.
- \* 15) Commence the step rate test with an initial pump rate of 0.5 bpm with water. Hold this rate and all subsequent rates for 15 minutes OR until the rate is stable. The rates (in bpm) will increase as follows or as specified by the onsite engineer: 0.5, 1, 1.5, 2, 2.5, 3, 3.5, 4, 4.5, etc. Once breakover has occurred, continue pumping for 2 more steps before shutting down. \* *RATES AND STEP TIMES MUST REMAIN CONSISTENT UNLESS CHANGES ARE AUTHORIZED BY NMOCD WITNESS ON LOCATION.*
- 16) Record ISIP in increments of 5 for 15 minutes. ND stimulation company. Pull pressure gauges with a braided line wireline.

**\*\*If step rate test is sufficient, no hydraulic stimulation is necessary and proceed with landing tubing.**

### LANDING TUBING

17) Always inspect and photograph location. Make sure date and time appears on photographs. Retain electronic copies of the photos & report any problems to the Farmington office.

18) Deliver to location the following equipment:

1.	4,000' of 3-1/2" IPC J-55, 8rnd, 9.3#, EUE tubing (and add'l pup jts)
2.	One (1) 400 bbl tank filled w/ 2% KCl
3.	One (1) 7" Baker Packer (as designed)

19) Inspect location to ensure compliance with all company safety policies and BLM & NMOGCD rules and regulations. Hold safety meeting with all personnel on location every morning and whenever the scope of the job changes. Fill out and review JSA. Ensure all visitors have proper PPE and are wearing a COP approved orientation sticker.  
**"OUR WORK IS NEVER SO URGENT OR IMPORTANT THAT WE CANNOT TAKE THE TIME TO DO IT SAFELY."**

20) Check casing and bradenhead pressures. Check well head for LEL. MIRU completion rig & air foam unit. Place fire and safety equipment in strategic locations.

21) Ensure the proper well control measures have been taken.

22) NU & test BOP's. Report test results in Wellview.

23) Ensure pipe rams and handling equipment are set to handle 3-1/2", strap 3-1/2" tubing.

24) TIH with packer assembly and 3-1/2" tubing and set @ **3,600'** (+/- 62' above top perf) in compression.

25) RDMO completion rig.

Contact Phone Numbers			
Position	Name	Office	Cell
Completion Engineer	Gina Bertoglio	326-9712	320-2042
Rig Superintendent	James Woosley		486-0900
Rig Superintendent	Lyle Ehrlich		320-2613
Rigless Superintendent	Mike Martinez		320-7473
Frac Supervisor	Mark Byars		486-2831
	Rocky Couder		609-3417
	Rowz Martinez		215-9731
Cased Hole	Bluejet	325-5584	
Stimulation	PACE	327-6222	486-2370 (Steve)
Slickline	Phoenix (Jeff)	325-1125	