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

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

Form C-103
March 4, 2004

WELL API NO.
30-045-34376

5. Indicate Type of Lease
STATE ☐ FEE ☒

6. State Oil & Gas Lease No.

SUNDRY NOTICES AND REPORTS ON WELLS
(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.)

7. Lease Name or Unit Agreement Name
Allison Unit

1. Type of Well:
Oil Well ☐ Gas Well X☐ Other

8. Well Number
13N

***Burlington Resources***

9. OGRID Number
14538

10. Pool name or Wildcat
Blanco MV/Basin DK

4. Well Location

Unit Letter F : 132 feet from the North line and 1624 feet from the West line

Section 12 Township 32N Range 7W NMPM San Juan County

11. Elevation *(Show whether DR, RKB, RT, GR, etc.)*
6354'

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

| NOTICE OF INTENTION TO: | | | | SUBSEQUENT REPORT OF: | | | |
|---|---|---|---|---|---|---|---|
| PERFORM REMEDIAL WORK | ☐ | PLUG AND ABANDON | ☐ | REMEDIAL WORK | ☐ | ALTERING CASING | ☐ |
| TEMPORARILY ABANDON | ☐ | CHANGE PLANS | ☒ | COMMENCE DRILLING OPNS. | ☐ | PLUG AND ABANDONMENT | ☐ |
| PULL OR ALTER CASING | ☐ | MULTIPLE COMPLETION | ☐ | CASING TEST AND CEMENT JOB | ☐ | | |
| OTHER | ☐ | | | 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 wished to deepen the Intermediate 7" casing depth from 4400' to 4606' & the TD depth deepened from 7913' to 8190'. The cmt will be adj accordingly.

Attached is a new drilling proposal.

RCVD JAN 16 '08
OIL CONS. DIV.
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 Rhonda Rogers TITLE Regulatory Technician DATE 1/11/08

Type or print name Rhonda Rogers E-mail address: rogerrs@conocophillipsc.com Telephone No. 505-599-4018

(This space for State use)

APPPROVED BY H. Villanueva TITLE Deputy Oil & Gas Inspector, District #3 DATE JAN 16 2008

Conditions of approval, if any:

# BURLINGTON RESOURCES

# San Juan Division - Drilling Program

## Allison 13N

| | | | |
|---|---|---|---|
| | | API # | APD/BLM: |
| | | 30-045-34376 | 8/15/2007 |
| T - 32 N | Objective: MV/DK New Drill | Network # | AFE # |
| R - 7 W | Footages: 132' FNL, 1624' FWL | 10189920 | WAN CDR 7043 |
| Sec 12 | | 0 | 0 |
| | | Lease # | |
| Rig: AWS #777 | BLM Phone # | State Well | |
| GL: 6353' | 505-599-8907 | Like-Kind | (248) Cost |
| KB: 6368' | OCD Phone # | 125 $/FT | $1,072,989 |
| | 505-334-6178 | APD TMD: | 8190' |

**In case of Major Emergency Call 911**
**Give the following information to Operator:**

| | | | |
|---|---|---|---|
| Well Name: | Allison 13N | County: | San Juan |
| | | State: | NM |
| Latitude (NAD27): | 36 degrees, 59.9815 minutes | Latitude (NAD83): | 36.999700 degrees |
| Longitude(NAD 27): | 107 degrees, 31.2243 minutes | Longitude(NAD83): | 107.521010 degrees |

**Head east on Highway 151 towards Allison for 12.3 miles to County Road 330. Turn right on County Road 330 and go south for 2.0 miles to County Road 4020. Turn right (westerly) for 7/10 mile to southerly turn. Turn right through gate (westerly), go 6/10 mile (southwesterly). Turn right (northerly) and go 3/10 mile to location.**

## Environmental, Health & Safety

"Opportunities are usually disguised as hard work, so most people don't recognize them." *Ann Landers* "Nothing is particularly hard if you divide it into small jobs." *Henry Ford*

| | TRIR* | FAT | Restrict'd Duty | OSHA Rec | 1st Aid |
|---|---|---|---|---|---|
| Goal | 1 | 0 | 0 | 0 | 0 |
| Actual (12/31/07) | 2.36 | 1 | 13 | 28 | 134 |

* TRIR - Total Recordable Incident Rate per 200,000 man-hours

**Environmental Goals:**
- Zero Spills on Location
- Remove Trash from Roads and Locations

| TVD | TMD | Geology |
|---|---|---|
| 0' | 0' | San Jose |
| 215' | 215' | SCP |
| NA | NA | Naciemento |
| 2086' | 2175' | Ojo Alamo |
| 2182' | 2280' | Kirtland |
| 2585' | 2721' | Fruitland |
| 2982' | 3156' | Pictured Cliffs |
| 3147' | 3337' | Lewis |
| 4044' | 4313' | Huerfanito Bentonite |
| 4504' | 4781' | Chacra |
| 4606' | 4883' | ICP |
| 4922' | 5199' | Upper Cliff House |
| 5203' | 5480' | Massive Cliff House |
| 5289' | 5566' | Menefee |
| 5489' | 5766' | Point Lookout |
| 6008' | 6285' | Mancos |
| 6876' | 7153' | Gallup |
| 7600' | 7877' | Greenhorn |
| 7647' | 7924' | Graneros |
| NA | NA | Two Wells |
| NA | NA | Paguate |
| 7765' | 8042' | Upper Cubero |
| 7813' | 8090' | Lower Cubero |
| 7881' | 8158' | Encinal |
| 7900' | 8177' | Est Bottom of Perfs |
| 7913' | 8190' | Total Depth |

### Hydraulics

12 1/4" Reup

8 3/4" Reed Hycalog SDX516S-B2 8-12's 8-15K WOB 450 to 500 GPM 65 RPM

Drill out from under surface with directional tools

6-3/4", 9.10 lobe, 4.0 stg, 0.25 rev/gal, slick Cavo motor

**Vary drilling parameters if necessary to increase ROP**

New Diamond Air 6-1/4" Bit Marquis CV462 on Halco Hammer

2-4 K WOB 30-40 RPM

Slow ROP before drilling into the top of Greenhorn Reduce WOB to 2,000 & RPM to 25

**If hole gets wet:** Immediately start pulling drill string out of the hole & then contact the drilling superintendent

### Drlg Fluids

Spud Mud

Drill out from under surface w/ Clean Faze (Vis 33-35, WT 8.5-9.0 ppg, WL of 6-8 cc/30 min). Sweep hole with gel/fiber as needed. Don't hesitate to mud hole up!

@ TD make wiper trip to drill collars if necessary

Preferred flow rate is 500 gpm

GPM range for motor 250-600 GPM

Air/Nitrogen 1800 cfm 400 - 500 psi

Run 1-3 #/ft lube beads for friction if necessary

Oxygen conc **MUST** be 8% or less while drilling prod hole section

### Cement

Type III cement with 3% CaCl2 and 1/4 pps cellofiake.

| | | |
|---|---|---|
| 180 sks | 220.6 cu.ft | 15.2 ppg |
| 1.28 cu.ft/sk | 5.77 gal per sk | 200% |

**1-Stage Intermediate Cement Procedure**

**Preflush:**
***10 bbls FW, 10 bbls MF, 10 bbls FW***

**Scavenger**
Premium Lite w/ 3% CaCl, 0.25 pps Cello-Flake,5 pps LCM-1, 0.4% FL-52 and 0.4% SMS.

| | | |
|---|---|---|
| 20 sks | 11 ppg | 17.89 gal/sk |
| 56.0 cu. ft. | 3.02 cu ft /sk | |

**Lead**
Premium Lite w/ 3% CaCl, 0.25 pps Cello-Flake,5 pps LCM-1, 0.4% FL-52 and 0.4% SMS.

| | | |
|---|---|---|
| 670 sks | 12.1 ppg | 11.29 gal per sk |
| 1413.5 cu. ft. | 2.13 cu ft./sk | 125% |

**Tail**
Type III cmt w/ 1% CaCl, 0.25 pps Cello-Flake and 0.2% FL-52.

| | | |
|---|---|---|
| 120 sks | 14.60 ppg | 6.64 gal per sk |
| 156.1 cu. ft. | 1.38 cu.ft /sk | 0% |

Top of Tail @ 3906.72 ft. TMD

**If losses are incurred during drilling operations contact the office for two-stage cement procedure or an alternate single stage cement procedue.**

**Production Cement Procedure**

***Preflush: 10 bbls Chem Wash, 2 bbls FW***

**Scavenger: Premium Lite HS FM + 0.25pps Cello-Flake, 0.3% CD-32, 6.25pps LCM-1, 1% FL-52.**

| | | |
|---|---|---|
| 10 sks | 11.0 ppg | 17.89 gal/sk |
| 27.0 cu ft. | 3.02 cu.ft /sk | 40% |

**Tail: Premium Lite HS FM + 0.25pps Cello-Flake, 0.3% CD-32, 6.25pps LCM-1, 1% FL-52.**

| | | |
|---|---|---|
| 240 sks | 12.5 ppg | 9.80 gal/sk |
| 460.0 cu. ft. | 1.98 cu.ft./sk | 40% |

### Materials

1 Cameron SSDC wellhead
1 Wellhead fuzz cap
215 feet 9-5/8" 32.3# H-40 STC
1 9-5/8" sawtooth guide shoe
3 Bow Type Centralizers
1 Rubber Plug f/displacement

**Intermediate String**
1 7" Float Shoe (Gemoco)
40 feet Shoe Joint 7" 23.0#, L-80 LT&C
1 7" Float Collar (Gemoco)
4843 feet 7", 23.0#, L-80 LT&C

*39 -7" x 8-3/4" Tandem Rise type every 3rd jt from shoe to base of surface casing*

**Totals**
5033 feet 7", 23.0#, L-80 LT&C w/ 150' extra
*39 -7" x 8-3/4" Tandem Rise type centralizers*

**Production String**
1 4-1/2" Float Shoe (Gemoco)
1 4-1/2" Float Collar w/ Insert and latch in plug
416 feet 4-1/2" 11.6#, L-80 LT&C
10 feet 4-1/2" 11.6#, L-80 LT&C marker jt @ 150' above the Graneros
3451 feet 4-1/2" 11.6#, L-80 LT&C @ the Huerfanito Bentonite
10 feet 4-1/2" 11.6#, L-80 LT&C marker jt
4303 feet 4-1/2" 11.6#, L-80 LT&C to surface
*19 4-1/2" x 6-1/4" bowspring centrilizers, 1 on shoe jt, then 1 every 4th jt f/bottom to above Cliffhouse & 1 on jt below 7" shoe*

**Totals**
**8340 feet** 4-1/2" 11.6#, L-80 LT&C w/ 150' extra
***19*** *4-1/2" x 6-1/4" bow type*
**If mud drilled, contact office for new TD.**

**Have mudloggers on hole from 7550' TMD to TD. Mudloggers will be Softrock (970-247-8868)**

**No open hole logs.**

### Offset Summary

**Allison #57N (MV/DK, 2006, 1 mi. S):** Preset surface. Drilled f/231'-1,506' w/ 8-3/4" Smith MA 616, avg ROP=75 fph, max dev=12 deg Tripped for excessive deviation. Drilled f/1,506'-3 674' w/ 8-3/4" Hughes GT-09C, avg ROP=32 4 fph, max dev=10 deg. Added 15% LCM at 2,958' just above Fruitland, no lost circ reported Ran 7", 20#, J-55, ST&C to 3,662' Cemented intermediate casing with 243 bbls in single stage with 115% excess, circ 55 bbls to surf. Drilled f/3,674'-8,093' w/ 6-1/4" CV462, avg ROP=124 fph Ran 4-1/2", 11.6#, N-80 ST&C to 8,090' Cemented with 127 bbls w/ 50% excess, TOC @ 2,400'.

**Allison #77 (FS/PC 2006, 1/2 mi. S):** Drilled 8-3/4" surface hole to 145'. Ran 7", 20#, J-55 ST&C to 143'. Drilled f/145'-3,450' w/ 6-1/4" HC505Z, avg ROP=123 fph, max dev=1.5 deg Took gas kick at 3,270', mud wt had been 8.8 ppg, no mention of mud wt used to kill the well Ran 4-1/2", 11.6#, N-80, LT&C to 3,445' Cemented production casing with 122 bbls in single stage, circ. 14 bbls to surf

### Operational Notes

***Directional Info***

**Plan Sections**

| Measured Depth (ft) | Inclination (d) | Azimuth (d) | Vertical Depth (ft) | Build Rate (d/100ft) | Casing Point |
|---|---|---|---|---|---|
| 0 | 0 | 0 | 0 | 0 | |
| 350 | 0 | 0 | 350 | 0 | |
| 1,551.10 | 24.02 | 122.65 | 1,516.20 | 2.0 | |
| 4,082.70 | 24.02 | 122.65 | 3,828.50 | 0 | |
| 4,883.40 | 0 | 0 | 4,606.00 | -3.0 | Inter Csg Point |
| 8,190.40 | 0 | 0 | 7,913.00 | 0 | Prod Csg Point |

- Scientific Drilling will provide directional tools and driller
- Drill out surface cmt with directional equipment, drill to KOP of 350'
- A 6 1/2" E-Field MWD tool will be used
- Run an Hunting 6-3/4", 7.8, 0.28 rev/gal 5.0 stage motor without stabilizers
- If directional plan changes, recalculate position and drill to TVD. If deviation at Int TD exceeds 5° call office for further instruction
- At 7" casing point, TOH with drilling assembly and TIH with insert bit, collar, 8-1/2" 3-pt reamer if necessary

***Target Info***
- Bottom hole location is 915' FNL and 2260' FEL (Section 12)
- Target is 779' S and 1216' E from surface stake
- BHL is 1,444' **in azimuth of 24.02°** from surface location
- Target size is a 50' radius around the BHL

***Operational Info***
- **Run 6 jts of 6 1/4" spiral dc and 20 jts of 4 1/2" HeviWate pipe for intermediate hole (supplied by Weatherford).**
- Run 6 DCs for air BHA
- Caliper everything that goes through the table.
- **Pump cement job no greater than 4 BPM.**
- Install drilling head rotating rubber once BHA is burned
- Well should take an estimated 11 days to drill
- **Have Blooie line rigged up prior to drilling the Kirtland**
- **Estimated bottom of perfs @ 8177.4' TMD**
- Call **both** regulatory agencies 24 hours in advance of BOP testing, spud, running csg, or cementing Leave message if after hours

R:\Implementation Program\2008\(01) Development\Allison 13P - Directional\[Allison 13P drillprog xls]PROG

Prepared: 1/11/2008

Prepared: Russell Perkins - Drilling Engineer

Reviewed: Shon Robinson - Drilling Engineering Supervisor

Approved: Ed Jackson - Drilling Superintendent