

RECEIVED

JUN 13 2008

Bureau of Land Management  
Farmington Field Office

submitted in lieu of Form 3160-5  
**UNITED STATES**  
**DEPARTMENT OF THE INTERIOR**  
**BUREAU OF LAND MANAGEMENT**

## Sundry Notices and Reports on Wells

- |   |  |
|---|--|
| <p>1. <b>Type of Well</b><br/>GAS</p> <p>2. <b>Name of Operator</b><br/><b>BURLINGTON</b><br/>RESOURCES OIL &amp; GAS COMPANY LP</p> <p>3. <b>Address &amp; Phone No. of Operator</b><br/><br/>PO Box 4289, Farmington, NM 87499 (505) 326-9700</p> <p>4. <b>Location of Well, Footage, Sec., T, R, M</b><br/><br/>Unit B (NWNE), 1260' FNL &amp; 2290' FEL, Section 21, T27N, R04W, NMPM</p> | <p>5. <b>Lease Number</b><br/>SF-080674</p> <p>6. <b>If Indian, All. or Tribe Name</b></p> <p>7. <b>Unit Agreement Name</b><br/>San Juan 27-4 Unit</p> <p>8. <b>Well Name &amp; Number</b><br/>San Juan 27-4 Unit 60M</p> <p>9. <b>API Well No.</b><br/><br/>30-039-30344</p> <p>10. <b>Field and Pool</b><br/>Basin Dakota<br/>Blanco Mesaverde</p> <p>11. <b>County and State</b><br/>Rio Arriba Co., NM</p> |
|---|--|

**12. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OTHER DATA**

Type of Submission	Type of Action	
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment	<input type="checkbox"/> Change of Plans
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion	<input type="checkbox"/> New Construction
<input type="checkbox"/> Final Abandonment	<input type="checkbox"/> Plugging	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> Water Shut off
	<input type="checkbox"/> Altering Casing	<input type="checkbox"/> Conversion to Injection
		<input checked="" type="checkbox"/> Other - Change of plans

**13. Describe Proposed or Completed Operations**

6/12/08 Burlington Resources wishes to deepen the surface casing depth from 216' to 350' in order to mitigate any losses that might be incurred while drilling the intermediate hole. The well is fairly close to a cliff and there is potential to lose returns if surface casing is set too shallow. Cement will be adjusted accordingly. Please see the revised drilling program.

RCVD JUN 19 '08  
 OIL CONS. DIV.  
 DIST. 3

**14. I hereby certify that the foregoing is true and correct.**

Signed Tamra Sessions Tamra Sessions Title Regulatory Technician Date 6/13/2008

(This space for Federal or State Office use)

APPROVED BY Troy L. Salyers Title Petroleum Engineer Date 6-17-2008  
 CONDITION OF APPROVAL, if any:

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

PIT, CLOSED LOOP SYSTEM, BELOW  
 GRADE TANK, PROPOSED  
 ALTERNATIVE METHOD OR CLOSURE  
 PLAN TO BE DESIGNED, CONSTRUCTED  
 & OPERATED PURSUANT TO NMOCD  
 RULE 19.15.17 EFFECTIVE 06/16/08

NMOCD

BURLINGTON RESOURCES

SAN JUAN 27-4 UNIT #60M

T - 27 N	Objective: MV/DK New Drill	API #	LEASE #
R - 4 W	Footages: 1260' FNL, 2290' FEL	30-039-30344	NMSF-080674
Sec 21		APD/BLM:	BLM Phone #
		4/16/2008	505-599-8907
		Like-Kind	(248) Cost
		78 8598 \$/FT	\$661,003
Rig: H&P 282	MV NW# 10158755		
GL: 7074'	DK NW# 10159865		
KB: 7090'	MV AFE# WAN ZA2 7312		
	DK AFE# WAN ZA2 7202		

San Juan Division - Drilling Program

In case of Major Emergency Call 911

Give the following information to Operator:		County: Rio Arriba
Well Name.	SAN JUAN 27-4 UNIT #60M	State: New Mexico
Latitude (NAD 27):	36 degrees, 33.7485786 minutes	Latitude (NAD 83): 36.562486111"N
Longitude (NAD 27):	107 degrees, 15.2795659 minutes	Longitude (NAD 83): 107.255258333"W
FROM BLOOMFIELD, NM. AT INTERSECTION OF HWY 550 AND HWY 64: TRAVEL EAST ON HWY 64 FOR 36 4 MILES (TO MILE POST 101.1). TURN RIGHT (BY GOBERNADOR SCHOOL) AND TRAVEL SOUTH ON CR 366. AT 1 0 MILES, Y IN ROAD, STAY RIGHT ON "AMERICAN GENERAL" ROAD AT 1.3 MILES, CROSS CATTLE GUARD AT 3 4 MILES, CROSS CATTLE GUARDAT 3.9 MILES, CROSS CATTLE GUARDAT 4.4 MILES, ROAD INTERSECTION, STAY STRAIGHTAT 5 4 MILES, CROSS WASH AND CONTINUE PAST TWIN PEAKS SIGN;AT 7.1 MILES, CROSS CATTLE GUARD, AT 8 3 MILES, Y IN ROAD STAY LEFT PASS SPEED SIGN; AT 9.5 MILES, Y IN ROAD, STAY LEFT; AT 10.5 MILES, CROSS CATTLE GUARD; AT 11.3 MILES, PASS SPEED SIGN; AT 11.8 MILES, CROSS CATTLE GUARD, AT 14.7 MILES, TURN RIGHT AT 44 CROSSING WATER HOLE; AT 14 9 MILES, FROM TURNING OF HWY 64 CROSS CARRIZO WASH-----RESET ODOMETER-----AT . J MILES, INTERSECTION, STAY LEFT, AT 1.7 MILES, CROSS CATTLE GUARD, AT 2.6 MILES, T IN ROAD STAY LEFT; AT 2.7 MILES, INTERSECTION STAY STRAIGHT ON RD 315; AT 3.1 MILES, ACCESS ROAD FOR SAN JUAN 27-4 UNIT 60M ON RIGHT SIDE OF ROAD FR 315		

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*	LTA	RWC	OSHA Rec	1st Aid
Goal	0	0	0	0	0
Actual (5/17/08)	2 94	1	4	3	69

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

Environmental Goals:

- Zero Spills on Location

- Remove Trash from Roads and Locations

Offset Summary

**SJ 27-4 Unit 142B (MV, 2001, 8 m S):** Drilled 12-1/4" surf to 232' TD Landed 9-5/8" @ 229' Cmt 225 sx - circ 16 bbls cmt to surface 8-3/4" intermediate Having trouble keeping mud weight down 1/3009-3190' TD'd @ 3740' Hole got extremely tight starting @ 2600' up to bottom of surf pipe Tripped in hole knocking out bridges Made connections and washed last 500' to TD Landed 7" @ 3465' Cmt w 428 sx lead, 90 sx tail - circ 50 bbls cmt to surface Air drilled prod hole to TD 6530' Landed 4-1/2" liner @ 6270' Liner top @ 3298' Cmt liner w 284 sx cmt

**SJ 27-4 Unit 101N (MV/DK, 2005, 1 ml SE):** Drilled surf to 236' TD/csg/cmt no probs Drilled 8-3/4" int to 3988' TD Short trip to 3000' 3rd and 4th stands had 30K drag off bottom Free there after Bridge @ base of PC going back in Landed 7" @ 3978' 2-stage cmt 1st stage - 9 sx lead, 90 sx tail - circ 9 bbls cmt 2nd stage - 9 sx lead, 429 sx tail - circ 43 bbl cmt Air drilled prod string to TD 8157' Landed 4-1/2" csg @ 8154' Cmt w 9 sx lead, 297 sx tail 40% excess & 138' overlap

**SJ 27-4 Unit 57M (MV/DK, 2004, 1 ml SW):** Drilled surf to 236' TD/csg/cmt no probs 8-3/4" int Fluid fell back while running survey @ 1090' Mixed pill and sweep hole, drill to 1210', lost returns Built pill, hole full but no circ, mixed pits to 45 vis, 15% LCM, got returns @ 2148' went back to drilling in reserve w/clean phase mud @ 3480' backed off for Ojo, lost returns, mixed pill TD'd @ 4220' Muddied up for csg job, lost returns just as vis got to 35-40, lost 80 bbls Built vol mix LCM 15%, circ and cond hole Landed 7" @ 4213' Stage tool @ 3654' 1st stage cmt, 24 sx lead, 90 sx tail, circ 12 bbl cmt 2nd stage cmt 431 sx, circ 10 bbls to pit Air drilled prod @ 4600' ROP fell and stopped drilling @ 4770' TOOH due to hammer problem TH w 6-1/4" tri-cone and junk basket Found 4 buttons and 7 pieces of buttons in bskt TD'd @ 8429' Landed 4-1/2" @ 8428' Cmt 9 sx lead, 287 sx tail 35% excess and 106' of overlap

Operational Notes

San Juan 27-4 Unit# 41N (H&P282 2007 MV/DK 3 2 m NW) Mote preset surface @ 229-ft Drilled int hole with 8-3/4" x 9-7/8" Hughes RWD assembly, no overpull noted while TOOH with DP but did have to wash casing down from 1,983' to int TD Lost circ when csg got to btm, tried to mix up another pit of mud but got float equip plugged with LCM Had to perf csg above FC, pumped 1st slg of planned two-stage job, WOC 8 hours, run temp survey Got cmt to within 90 feet of DV tool and was able to open DV tool, so pumped 2nd stg with cmt circ to surf Spent about 23 hours working through that issue Shanked an air hammer bit so spent 8 hours TOOH & RIH for air hammer Spent 1 5 hours in RGRP for generator problem Import and read this well HIGH POSSIBILITY OF LOOSING WHILE RUNNING CASING

- Contact Southwest Bit & Tool for bit and motor needs (632-1452)
- Pump intermediate cement job using BJ Services at 4 bpm or less to reduce ECD's

**IMPORTANT NOTE:** Cement surface lines pressure testing should be hold for at least 5 min and then released All plugs bumped should be with at least 500 PSI over final circulating pressure & pressure should be hold for at least 10 min When pressure is released, water flow back to cement mixer tank & last slurry weight returned to surface should be reported in the final paper & Wellview Release pressure slowly, thanks

- Install rotating rubber after drill collars are buried on 8-3/4" hole
- Rig up blow line before drilling into Kirtland formation
- Fill out all Check Sheets (MIRU, Pre-spud) and take pictures of location
- Surface pits MUST be lined according to the APD
- Not a twinned well
- Land owner BLM & OCD
- Call all proper regulatory agencies, including NMOCD, 24 hours in advance of BOP testing, spud, running csg, or cementing Leave message if after hours
- Call office to received verbal approval for proceeding with certain hCOPC drilling practices (cement slurry, surface hole diameter, pressure tests) that are contrary to the approved APD
- If mud drilling is necessary, run 40' shoe jlt and 4-1/2" x 6-1/4" centralizers on every other joint across the DK & then every 4th joint to the top of MV
- Obey posted speed limits and keep all gates locked!!
- Barricade any existing well/metering equipment on location.

TMD	Geology	Hydraulics	Drig Fluids	Cement	Materials
0'	San Jose	12 1/4" Retp	Spud Mud	Type III cement with 2% CaCl2 and 1/8 pps Cello-Flake	1 Wood Group SH2 Wellhead
350'	SCP	Hughes 8 3/4" 506ZX 6-14's 10-20K WOB 60-70 RPM	Drill out from under surface w/ Starch Drispac System Keep MW as low as possible 8 4" - 8.6 ppg Keep water loss less than 12 cc/ 30 min above Ojo Alamo, then less than 8 to TD Sweep with gel and fiber as needed Start mudding up @ Ojo Alamo-Mix gel to 45 vis w/ 15% LCM in close loop	294 sks 347 4 cu ft 15 6 ppg 1 18 cu ft/sk 5 24 gal per sk 200%	350 feet 9-5/8" 32 3 0# J-55 STC 1 9-5/8" sawtooth guide shoe 3 Bow Type Centralizers 1 Rubber Plug 1/displacement
3385'	Ojo Alamo	Slow Through OJO 10-15K WOB	Keep Surface ROP less than motor ROP	<b>2-Stage Intermediate Cement Procedure</b> <b>Stage 1</b> <b>Preflush: 20 bbls Mud Flush</b> <b>Scavenger: Premium Plus / Type III cement + 3.0% Bentonite + 30 pps San Juan Poz + 5.0 pps Phenoseal</b> 19 sks 11.0 ppg 17 89 gal/sk 56.0 cu.ft 3.02 cu.ft/sk <b>Lead: Premium Plus / Type III cement + 3.0% Bentonite + 30 pps San Juan Poz + 5.0 pps Phenoseal</b> 20 sks 11.5" ppg 14.61 gal/sk 52.6 cu.ft 2.60 cu.ft/sk 100% <b>Tail: 50/50 Poz Premium + 6 lbm/sx Pheno Seal + 2% Bentonite</b> 95 sks 13.5 ppg 5.51 gal/sk 126.4 cu.ft 1.33 cu.ft/sk 0%	1 7" Float Shoe Weatherford 1305 Float Shoe 42 feet Shoe Joint 7" 23.0#, J-55 LT&C <b>Intermediate String</b> 1 7" Float Collar Weatherford 1305 Float Collar 263 feet 7" 23.0#, J-55 LT&C 445 feet 7" 20.0#, J-55 ST&C 1 Hydraulic DV tool 3456 feet 7" 20.0#, J-55 ST&C 5 7" x 8-3/4" bow type every 3rd jnt to Ojo 2 7" x 8-3/4" turbolizer centralizers at base of Ojo 19 7" x 8-3/4" bow type every 4th jnt to surface csg <b>Totals</b> 455 feet 7" 23.0#, J-55 LT&C w/ 150' extra 3900 feet 7" 20.0#, J-55 ST&C 24 7" x 8-3/4" bow type centralizers 2 7" x 8-3/4" turbolizer centralizers
3455'	Stage tool	6-3/4" motor w 7/8 lobe, 28 rev/gal, and shock sud			<b>Production String</b> 1 4-1/2" Float Shoe Weatherford 329E 1 4-1/2" Float Collar Weatherford 402E w/ Baffle Plate 328 feet 4-1/2" 11 6#, J-55 LT&C 10 feet 4-1/2" 11 6#, J-55 LT&C MARKER JNT 394 feet 4-1/2" 11 6#, J-55 LT&C  3172 feet 4-1/2" 10 5#, J-55 ST&C to Huerfanto Bentonite  10 feet 4-1/2" 10 5#, J-55 ST&C marker jlt  2848 feet 4-1/2" 10 5#, J-55 ST&C 1620 feet 4-1/2" 11 6#, J-55 LT&C  6 4-1/2" x 6-1/4" every other jnt off bottom 1 4-1/2" x 6-1/4" at intermediate casing shoe <b>Totals</b> 6030 feet 4-1/2" 10 5#, J-55 ST&C 2502 feet 4-1/2" 11 6#, J-55 LT&C +150 EXTRA FEET  7 4 -1/2" x 6-1/4" bow type
3605'	Kirtland	Use 2 Pumps 105 SPM each		<b>Stage 2</b> <b>Preflush: 20 bbls Mud Flush</b> <b>Scavenger: Premium Plus / Type III cement + 3.0% Bentonite + 30 pps San Juan Poz + 5.0 pps Phenoseal</b> 19 sks 11.0 ppg 17.89 gal/sk 56.0 cu.ft 3.02 cu.ft/sk <b>Lead: Premium Plus / Type III cement + 3.0% Bentonite + 30 pps San Juan Poz + 5.0 pps Phenoseal</b> 361 sks 11.5 ppg 14.61 gal/sk 939 5 cu.ft 2.60 cu.ft/sk 100%	<b>One Stage Production Cement Procedure</b> <b>Preflush: 20 bbls Mud Flush</b> <b>Scavenger: 50/50 Poz/Standard 3.5 pps Pheno Seal (LCM) 0.2% CFR-3 Dispersant + 0.8% Hatad R-9 + 0.1 FL % HR-5 retarder + 3% Bentonite</b> 9 sks 3.02 cu.ft/sk 27.0 cu ft 17 89 gal/sk 11.0 ppg <b>Lead: 50/50 Poz/Standard 3.5 pps Pheno Seal (LCM) 0.2% CFR-3 Dispersant + 0.8% Hatad R-9 + 0.1 FL % HR-5 retarder + 3% Bentonite</b> 413 sks 14.45 cu.ft/sk 599.3 cu.ft 6.39 gal/sk 13.1 ppg 40%
3755'	Fruittland	2-4 K WOB	Air/Nitrogen	<b>1-Stage Intermediate Cement Procedure</b> <b>Preflush: 20 bbls Mud Flush</b> <b>Scavenger: Premium Lite w/ 3% CaCl2, 0.25 pps Cello-Flake, 5 pps LCM-1, 0.4% FL-52, 8% bentonite and 0.4% SMS</b> 22 sks 11.50 ppg 14.61 gal/sk 56.0 cu ft 2.60 cu.ft/sk <b>Lead: Premium Plus / Type III cement + 3.0% Bentonite + 30 pps San Juan Poz + 5.0 pps Phenoseal</b> 492 sks 12.10 ppg 11.29 gal/sk 1047.1 cu ft 2.13 cu.ft/sk 100% <b>Tail: 50/50 Poz Premium + 6 lbm/sx Pheno Seal + 2% Bentonite</b> 95 sks 13 50 ppg 5.51 gal/sk 126.4 cu.ft 1.33 cu.ft/sk 0%	
3915'	Pictured Cliffs	30-40 RPM	Do not drill with Oxygen content above 8% below Gallup		
4105'	Lewis	Slow ROP before drilling into the top of Greenhorn 2K WOB 25 RPM	Use N2 membrane unit from 100-ft above Gallup to TD		
4205'	ICP	Contact office staff.			
4478'	Huerfanto Bentonite				
4920'	Chacara				
5535'	Upper Cliff House				
5715'	Massive Cliff House				
5838'	Menefee				
5962'	Stage tool				
6112'	Point Lookout				
6640'	Mancos Shale				
7273'	Gallup				
8054'	Greenhorn				
8118'	Graneros				
8151'	Two Wells				
8269'	Upper Cubero				
8311'	Lower Cubero				
8357'	Bottom Per				
8362'	Oak Canyon				
8378'	Est PBTD				
8382'	Encinal				
8382'	Total Depth				

Prepared: 6/12/2008

Revised: Russ Perkins - Drilling Engineer

Reviewed: Shon Robinson - Drilling Engineering Supervisor

Approved: Jim Fodor - Drilling Superintendent