UNITED STATES DEPARTMENT OF THE NTERIOR **BUREAU OF LAND MANAGEMENT**

1a.	Type of Work	100 1100	5. Lease Number
·u.	DRILL	÷ :	SF-079051
			Unit Reporting Number
			PC-891001051A
			MV-8910010510
1b.	Type of Well		6. If Indian, All. or Tribe
	GAS A		
2.	Operator	JUL 20 3	7. Unit Agreement Name
	BURLINGTON RESOURCES Oil & Gas	Company	San Juan 28-6 Unit
3.	Address & Phone No. of Operator		8. Farm or Lease Name
J.	PO Box 4289, Farmington, N	M 87499	San Juan 28-6 Unit N
	10 DOX 1203/ 1421130011		9. Well Number
	(505) 326-9700	The second second	21A
4.	Location of Well		10. Field, Pool, Wildcat
	660' FNL, 660'FWL,		So Blanco Pict Cliff
			Blanco Mesaverde
			11. Sec., Twn, Rge, Mer. (NMPM)
	Latitude 36 ⁰ 36.5, Longitude	107 28.7	Sec. 4, T-27-N, R-6-
			. 2/243
14.	Distance in Miles from Nearest Town		12. County 13. State
	14 miles from Gobernador		Rio Arriba NM
15.	Distance from Proposed Location to No	earest Property or Lease	
	660 '		"GENERAL REQUIREMENTS".
16.	Acres in Lease	•	17. Acres Assigned to Well PC - 161 - NW/4
	This action is subject to technical and procedural review pursuant to 43 CFR 3165.3		· · · · · · · · · · · · · · · · · · ·
	and appeal pursuant to 43 CFR 3165.4	•	MV - 321 W/2
18.	Distance from Proposed Location to N	earest Well, Drlg, Compl,	or Applied for on this Lease
40	1400'		20. Rotary or Cable Tools
19.	Proposed Depth 6031'		Rotary
21.	Elevations (DF, FT, GR, Etc.) 6712' GR		22. Approx. Date Work will Start
23.	Proposed Casing and Cementing Prog	iaiii ned	
	See Operations Plan attack	ieu	
			_
	(Sear !	1100	9-27-01
24.	Authorized by:	liance Supervisor	Date
	Regulatory/Comp.		
PFR	MIT NO.	APPROVAL I	DATE
		-	DATE JUL 18

Archaeological Report to be submitted

Threatened and Endangered Species Report to be submitted

NOTE: This format is issued in lieu of U.S. BLM Form 3160-3

Title 18 U.S.C. Section 1001, makes 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 presentations as to any matter within its jurisdiction.

50

District I PO Box 1980, Hobbs, NM B8241-1980

State of New Mexico Energy, Minerals & Natural Resources Department

Form C-102
Revised February 21, 1994
Instructions on back
Submit to Appropriate District Office
State Lease – 4 Copies
Fee Lease – 3 Copies

District II PO Drawer DD, Artesia, NM 88211-0719

OIL CONSERVATION DIVISION PO Box 2088 Santa Fe, NM 87504-2088

District III 1000 Rio Brazos Rd., Aztec, NM 87410

AMENDED REPORT

District IV PO Box 2088, Santa Fe, NM 87504-2088

			WELL	LOCAT]	ON AND	AC	REAGE DEDI	CATI	ON PL	AT		
1	API Number	(-		*Pool Cod	е	_		3	Pool Name	9		
30-039-	270	<u> 243</u>	72439	/72319			h Blanco Pic	tured	Cliff	s/Blan	co Mes	averde
'Property	Code	0		112	Prop		Name -6 UNIT NP					21A
7462	1966	28			*Open							levation
'0GRID	NO.	E	BURLING	STON RI			OIL & GAS C	OMP	NY LF)	E	5712 ·
					¹⁰ Surfac	ce l	Location					
UL or lot no.	Section	Township	Range	Lot Idn	Feet from t	the	North/South line		from the		est line	County RIO
D	4	27N	6W		660		NORTH			<u> </u>	.51	ARRIBA
		11 [Township	Bottom Range	Hole L	_ocation		f Different		n Surf		est line	County
UL or lot no.	Section	10w.euth			1000							
12 Dedicated Acre PC - 16	<u> </u>	l	<u> </u>	1	¹³ Joint or Inf	fill	³⁴ Consolidation Code	²⁵ Order	No.	J		
PC - 16 MV-W/32												
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328.5	LOT 4	! LO	OT 3					4	Peggy			
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		!			WA COCK			-	-Regul Title	atory	Superv	isor
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2.7				A.	2017 Su	<u></u>		10.	Date			
313		1		#	**			13	¹⁸ SUR	VEYOR	CERT	IFICATION
				V.	*	•			I hereb	y certify on this pl	that the w at was plo	vell location tted from field
<u> </u>	<u> </u>			4	. -	 .			my supe	ractual ervision a rect to t	surveys mad and that th the best of	de by me or under e same is true my belief.
		i		11		,	*		Date	of Sur	vey: AUC	SUST 25, 200
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				" 5229.1	8 '				Cer	<u> フのル</u> tificat	e Number	15269

BURLINGTON RESOURCES OIL & GAS COMPANY SAN JUAN 28-6 UNIT NP #21A 660' FNL & 660' FWL, SECTION 4, T27N, R6W, N.M.P.M. RIO ARRIBA COUNTY, NEW MEXICO STATE OF THE ×6525 APD MAP # 100' NEW BLM CONSTRUCTION 5 NWNW SECTION 4, T27N, R6W EXISTING R.O.M. NEW BLM R.O.M. PARATZO Muno2

OPERATIONS PLAN

Well Name: San Juan 28-6 Unit NP #21A

Location: 660'FNL, 660'FWL, Section 4, T-27-N, R-6-W

Rio Arriba County, New Mexico

Latitude 36° 36.5, Longitude 107° 28.7

Formation: South Blanco Pictured Cliffs/Blanco Mesa Verde

Elevation: 6712'GL

Formation Tops:	Top	Bottom	<u>Contents</u>
Surface	San Jose	2673 ′	
Ojo Alamo	2673 '	2809'	aquifer
Kirtland	2809 '	3034'	
Fruitland	3034'	3439'	gas
Pictured Cliffs	3439'	3574'	gas
Lewis	357 4′	4004'	gas
Intermediate TD	3824'		
Huerfanito Bentonite	4004'	4379 '	gas
Chacra	4379'	5069'	gas
Massive Cliff House	5069 ′	5199 '	gas
Menefee	5199'	5631'	gas
Point Lookout	5631'		gas
Total Depth	6031'		

Logging Program:

Mud Logs/Coring/DST -

Mud logs - none Coring - none DST - none

Open hole - Array Induction, CNL-CDL -intermediate TD to surface casing Cased hole - Gamma Ray, Cement bond - surface to TD

Mud Program:

u <u>11091</u>				
Interval - MD	Туре	Weight	<u>Vis.</u>	Fluid Loss
0- 200'	Spud	8.4-9.0	40-50	no control
200- 3824'	LSND	8.4-9.0	30-60	no control
3824- 6031'	Air/Mist/N2*	n/a	n/a	n/a

Pit levels will be visually monitored to detect gain or loss of fluid control.

*Nitrogen might be used in conjunction with or instead of air to prevent a down hole fire.

Casing Program (as listed, the equivalent, or better):

Hole Size	Measured e Depth	Csg Size	Weight	Grade
12 1/4"	0' - 200'	9 5/8"	32.3#	H-40
8 3/4"	0' - 3824'	7"	20.0#	J-55
6 1/4"	3724' - 6031'	4 1/2"	10.5#	J-55

Tubing Program: 0' - 6031' 2 3/8" 4.7# J-55

BOP Specifications, Wellhead and Tests:

Surface to Intermediate TD -

11" 2000 psi minimum double gate BOP stack (Reference Figure #1). After nipple-up prior to drilling out surface casing, rams and casing will be tested to 600 psi for 30 minutes.

Intermediate TD to Total Depth -

11" 2000 psi minimum double gate BOP stack (Reference Figure #1). After nipple-up prior to drilling out intermediate casing, rams and casing will be tested to 1500 psi for 30 minutes.

Surface to Total Depth -

2" nominal, 2000 psi minimum choke manifold (Reference Figure #3).

Completion Operations -

7 1/16" 2000 psi double gate BOP stack (Reference Figure #2). After nipple-up prior to completion, pipe rams, casing and liner top will be tested to 2000 psi for 15 minutes.

Wellhead -

9 5/8" x 7" x 2 3/8" x 2000 psi tree assembly.

General -

- Pipe rams will be actuated once each day and blind rams will be actuated once each trip to test proper functioning.
- An upper kelly cock valve with handle available and drill string valves to fit each drill string will be available on the rig floors at all times.
- BOP pit level drill will be conducted weekly for each drill crew.
- All BOP tests & drills will be recorded in daily drilling reports.
- Blind and pipe rams will be equipped with extension hand wheels.

Cementing:

9 5/8" surface casing - cement with 159 sx Class "B" cement with 1/4# Celloflake/sx and 3% calcium chloride (188 cu.ft. of slurry, 200% excess to circulate to surface). WOC 8 hrs. Test casing to 600 psi for 30 minutes.

Saw tooth guide shoe on bottom. Bowspring centralizers will be run in accordance with Onshore Order #2.

7" intermediate casing -

Lead w/401 sx 50/50 Class "G"/TXI Liteweight w/2.5% sodium metasilicate, 2% calcium chloride, 10 pps gilsonite and 0.5 pps Celloflake. Tail w/90 sx 50/50 Class "G" Poz w/2% gel, 2% calcium chloride, 5 pps gilsonite, 0.1% antifoam and 0.25 pps Celloflake (1149 cu.ft. of slurry, 100% excess to circulate to surface.) WOC minimum of 8 hours before drilling out intermediate casing. If cement does not circulate to surface, a CBL will be run to determine TOC. Test casing to 1500 psi for 30 minutes.

See attached alternative intermediate lead slurry.

7" intermediate casing alternative two stage: Stage collar at 2934'. First stage: cement with 209 sx Class "G" 50/50 poz w/2% gel, 5 pps Gilsonite, 2% calcium chloride, 0.25 pps Celloflake, 0.1% antifoam. Second stage: 342 sx Class "G"/TXI Liteweight with 2.5% sodium metasilicate, 2% calcium chloride, 0.5 pps Celloflake, 10 pps Gilsonite (1149 cu.ft., 100% excess to circulate to surface).

Cement nose guide shoe on bottom with float collar spaced on top of shoe joint. Bowspring centralizers spaced every other joint off bottom, to the base of the Ojo Alamo at 2809'. Two turbolating centralizers at the base of the Ojo Alamo at 2809'. Bowspring centralizers spaced every fourth joint from the base of the Ojo Alamo to the base of the surface casing.

4 1/2" Production Liner -

Cement to circulate liner top. Pump 230 sx 50/50 Class "G" Poz w/0.25 pps Celloflake, 5% gel, 0.1% retardant, 5 pps gilsonite, 0.25% fluid loss additive, 0.15% dispersant (331 cu.ft., 40% excess to circulate liner top). WOC a minimum of 18 hrs prior to completing.

Note: If open hole logs are run, cement volumes will be based on 25% excess over caliper volumes.

Cement nose guide shoe on bottom with float collar spaced on top of shoe joint. The liner hanger will have a rubber packoff.

If hole conditions permit, an adequate water spacer will be pumped ahead of each cement job to prevent cement/ mud contamination or cement hydration.

Special Drilling Operations (Air/Mist Drilling):

The following equipment will be operational while air/mist drilling:

- An anchored blooie line will be utilized to discharge all cuttings and circulating medium to the blow pit a minimum of 100' from the wellhead.
- The blooie line will be equipped with an automatic igniter or pilot light. Compressors will be located a minimum of 100' from the wellhead in the opposite direction from the blooie line.
- Engines will have spark arresters or water cooled exhaust.
- The rotating head will be properly lubricated and maintained.
- A float valve will be utilized above the bit.
- Mud circulating equipment, water, and mud materials will be sufficient to maintain control of the well.

Additional Information:

- The Mesa Verde formation will be completed.
- No abnormal temperatures or hazards are anticipated.
- Anticipated pore pressures are as follows:

Fruitland Coal

300 psi

- 600 psi Pictured Cliffs 700 psi Mesa Verde
- Sufficient LCM will be added to the mud system to maintain well control, if lost circulation is encountered below the top of the Pictured Cliffs.
- The northwest quarter of Section 4 is dedicated to the Pictured Cliffs and the west half of Section 4 is dedicated to the Mesa Verde.
- This gas is dedicated.

that 9/27/01