# **UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT**

JE MOA	APPLICATION FOR PERMIT TO DRILL, DEEPI	EN, OR PLUG BACK
la.	Type of Work	5. Lease Number
N 17.	DRILL	NM-04207
) Fai		Unit Reporting Number
b.	Type of Well GAS	6. If Indian, All. or Tribe
2.	Operator	7. Unit Agreement Name
•	BURLINGTON RESOURCES Oil & Gas Company	Allison Unit
3.	Address & Phone No. of Operator	8. Farm or Lease Name
	PO Box 4289, Farmington, NM 87499	Allison Unit
	•	9. Well Number
	(505) 326-9700	38N
l.	Location of Well	10. Field, Pool, Wildcat
	1745'FNL, 2450'FEL	Blanco Mesaverde/Basin Dakot
		11. Sec., Twn, Rge, Mer. (NMPM)
	Latitude 36 <sup>O</sup> 59.0, Longitude 107 <sup>O</sup> 28.8	G Sec.17, T-32-N, R-6-W
		G Sec. 17, T-32-N, R-6-W API# 30-045- 30902
4.	Distance in Miles from Nearest Town	12. County 13. State
	11 miles from Allison	San Juan NM
15.	Distance from Proposed Location to Nearest Property or Lease 1745'	Line
16.	Acres in Lease	17. Acres Assigned to Well
		320 E/2
18.	Distance from Proposed Location to Nearest Well, Drig, Compl,	or Applied for on this Lease
	1100' This action is subject to technical and	• •
19.	Proposed Depth procedural review pursuant to 43 CFR 3 and appeal pursuant to 43 CFR 3165.4.	165. <b>30. Rotary or Cable Tools</b> Rotary
21.	Elevations (DF, FT, GR, Etc.) 6463'GR	22. Approx. Date Work will Start
23.	Proposed Casing and Cementing Program	processing of Charlens Authorized ARE
	See Operations Plan attached	SUBJECT TO COMPLIANCE WITH ATTACHED "GENERAL REQUIREMENTS".
	Sau Can	10-31-01
24.	Authorized by: Many Compliance Company	<del> </del>
	Regulatory/Compliance Supervisor	Date
DEDM	UT NO	DATE
PEKM	IIT NO. APPROVAL I	
APPR	OVED BY TITLE	DATE FEB 14

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.

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

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

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

District IV PO Box 2088, Santa Fe, NM 87504-2088 State of New Mexico Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION PO Box 2088 Santa Fe, NM 87504-2088 Form C-102
Revised February 21, 1994
Instructions on back
Submit to Appropriate District Office
State Lease - 4 Conjes

State Lease - 4 Copies Fee Lease - 3 Copies

AMENDED REPORT

O Box 2088, 9	Santa Fe,	NM 87504-20	988							
		ı	WELL	LOCAT	ION AND A	CREAGE DEDI	CATION PL	ΑT		
¹A	PI Numbe	<u> </u>	Γ	*Pool Coo	ie		Pool Name	2		
30-045-	309	902	7	2319/71	599	Blanco Mesa	verde/Basin	Dakot	а	
*Property	Code				*Propert					11 Number
6784					ALLISO	N UNIT				38N
'OGRID N	No.	*			*Operato	r Name			*E	levation
14538	j	BU	RLIN(	STON R	ESOURCES	OIL & GAS (	COMPANY LF	·	(	5463'
					<sup>10</sup> Surface	Location				
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/We	est line	County
G	17	32N	6M		1745	NORTH	2450	ΕA	.ST	SAN JUAN
	·	<sup>11</sup> Bo	ttom	Hole L	ocation 1	f Different	From Surf	ace		L
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the		est line	County
12 Dedicated Acres		13 Joint or Infil	1 <sup>14</sup> Cons	olidation Code	order No.			L		<u> </u>
E/320										}
NO ALLOW	VABLE W	ILL BE AS	SIGNE	D TO TH	IS COMPLET	ION UNTIL ALL	INTERESTS H	IAVE BE	EEN CON	SOLIDATED
		UH A I	MOIN-2 I	ANUARU	UNII HAS B	EEN APPROVED				
2676.96		2.18		LC	269 .AT: 36*59.0 N NG: 107*28.8 N	<u></u>	Signatur Peggy Printed Regul Title	y certify d herein best of my Cole Name	that the is true ary knowledg	FICATION information ad complete e and belief
			245			2450'	Date	2/-	0	
~				17 <u>-</u>	— — NM-C	04207	C I hereby - C T T T T T T T T T T T T T T T T T T	certify to this plat actual su vision, and cet to the of Surv	hat the we was plots rveys made that the best of a /ey: JUL	FICATION ell location ted from field by me or under same is true my belief Y 24, 2001 ssional Surveyor
74 FM 2	-			\ 	3* /~	( & & ) &		JASON JASON	C. EDW	REE!

5360.52

JASN C. EDWARDS
Certificate Number 15269

## OPERATIONS PLAN

Well Name: Allison Unit #38N

Location: 1745' FNL, 2450' FEL, Sec 17, T-32-N, R-6-W

San Juan County, NM

Latitude 36° 59.0, Longitude 107° 28.8

Formation: Blanco Mesaverde/Basin Dakota

Elevation: 6463'GL

Formation Tops:	Top	Bottom	Contents
Surface	San Jose	2215'	
Ojo Alamo	2215'	2335 <b>′</b>	aquifer
Kirtland	2335 <b>′</b>	2735 <b>′</b>	gas
Fruitland	2735'	3090'	gas
Pictured Cliffs	3090'	3495'	gas
Lewis	3495'	4145'	gas
Intermediate TD	3595'		
Mesa Verde	4145'	4605′	gas
Chacra	4605′	5375 <b>'</b>	gas
Massive Cliff House	5375'	5405'	gas
Menefee	5405'	5590 <b>′</b>	gas
Massive Point Lookout	5590'	6095'	gas
Mancos	6095 <b>′</b>	6960 <b>'</b>	gas
Gallup	6960 <b>′</b>	7666 <b>'</b>	gas
Greenhorn	7666'	7720'	gas
Graneros	7720'	7840'	gas
Dakota	7840 <b>′</b>		gas
TD	7952'		

## Logging Program:

Cased hole - CBL-CCL-GR - TD to surface Open hole - none Cores - none

#### Mud Program:

_						
	Inter	rval	Type	Weight	<u>Vis.</u>	Fluid Loss
	0-	300'	Spud	8.4-9.0	40-50	no control
	300-	35 <b>95′</b>	LSND	8.4-9.0	30-60	no control
3	3595-	7952'	Air/N2	n/a	n/a	n/a

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

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

Hole Size	Depth Interval	<u>Csg.Size</u>	Wt.	Grade
12 1/4"	0' - 300'	9 5/8"	32.3#	H-40
8 3/4"	0' - 3595'	7"	20.0#	J-55
6 1/4"	3495' - 7952'	4 1/2"	10.5#	J-55

# Tubing Program:

0' - 7952' 2 3/8" 4.7# J-55

## BOP Specifications, Wellhead and Tests:

# Surface to Intermediate TD -

11" 3000 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" 3000 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, 3000 psi minimum choke manifold (Reference Figure #3).

#### Completion Operations -

7 1/16" 3000 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 3000 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 drilling crew.
- All BOP tests and 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 239 sx Class "B" cement with 1/4# celloflake/sx and 3% calcium chloride (282 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/374 sx 50/50 Class G/TXI lightweight w/2.5% sodium metasilicate, 2% calcium chloride, 10# gilsonite/sx and 1/2# celloflake/sx. Tail w/90 sx 50/50 Class "G" Poz w/2% calcium chloride, 2% gel, 1/4 pps celloflake, 5 pps gilsonite, 0.1% antifoam agent (1080 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 during completion operations 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 2635'. First stage: cement with 225 sx 50/50 Class "G" Poz w/2% calcium chloride, 2% gel, 1/4 pps celloflake, 5 pps gilsonite, 0.1% antifoam agent. Second stage: 307 sx 50/50 Class G/TXI lightweight w/2.5% sodium metasilicate, 2% calcium chloride, 10# gilsonite/sx and 1/2# celloflake/sx (1080 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 2335'. Two turbolating centralizers at the base of the Ojo Alamo at 2335'. Bowspring centralizers spaced every fourth joint from the base of the Ojo Alamo to the base of the surface casing.

- 4 1/2" Production Casing Cement to cover minimum of 100' of 4 1/2" x 7" overlap. Lead
  with 445 sx 50/50 Class "G" Poz with 5% gel, 0.25#
  celloflake/sx, 5# gilsonite/sx, 0.1% retardant and 0.25% fluid
  loss additive, 0.15% dispersant, 0.1% antifoam agent (640
  cu.ft.), 40% excess to cement 4 1/2" x 7" overlap). WOC a
  minimum of 18 hrs prior to completing.
- 4 1/2" production casing alternative: Lead w/189 sx 9.5 PPG Litecrete Blend w/0.11% dispersant, 0.5% fluid loss. Tail w/145 sx Class G 50/50 poz w/5% gel, 0.25 pps celloflake, 5 pps gilsonite, 0.25% fluid loss, 0.15% dispersant, 0.1% retarder, 0.1% antifoam (685 cu.ft., 50% excess to cement 4 ½" x 7" overlap).

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

Cement float shoe on bottom with float collar spaced on top of float shoe.

- Note: To facilitate higher hydraulic stimulation completion work, no liner hanger will be used. In its place, a long string of 4 1/2" casing will be run and cemented with a minimum of 100' of cement overlap between the 4 1/2" x 7" casing strings. After completion of the well, a 4 1/2" retrievable bridge plug will be set below the top of cement in the 4 1/2" x 7" overlap. The 4 1/2" casing will then be backed off above the top of cement in the 4 1/2" x 7" overlap and laid down. The 4 1/2" bridge plug will then be retrieved and the production tubing will be run to produce the well.
- 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 (Gas/Mist Drilling):

The following equipment will be operational while gas/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.
- Deduster equipment will be utilized.
- 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.