UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

	Type of Work	5. Lease Number
a.	DRILL	NMNM02491
		Unit Reporting Number
lb.	Type of Well GAS	6. If Indian, All. or Tribe
2.	Operator	7. Unit Agreement Name
	BURLINGTON RESOURCES Oil & Gas Company	
3.	Address & Phone No. of Operator	8. Farm or Lease Name
	PO Box 4289, Farmington, NM 87499	Federal A
		9. Well Number
	(505) 326-9700	1M
l .	Location of Well	10. Field, Pool, Wildcat
	1535' FNL, 1880' FEL	Otero Cha/Blanco MV/
	1555 1845	Basin Dakota
		_ 11. Sec., Twn, Rge, Mer. (NMPM)
	Latitude 36 ⁰ 47.2, Longitude 107 ⁰ 58.5	G Sec.27, T-30-N, R-11-W
	20020000 00 000000	API # 30-045- 30910
14.	Distance in Miles from Nearest Town	12. County 13. State
	5 miles to int. Hwy 64 & Hwy 550 in Bloomfi	ield, NM San Juan NM
	-	·
15.	Distance from Proposed Location to Nearest Property or Le	
	Distance from Proposed Location to Nearest Property or Le	ase Line 17. Acres Assigned to Well
	Distance from Proposed Location to Nearest Property or Le	ase Line 17. Acres Assigned to Well
16.	Distance from Proposed Location to Nearest Property or Le 1535' Acres in Lease Distance from Proposed Location to Nearest Well, Drlg, Cor	ase Line 17. Acres Assigned to Well Cha-NE/158.62 MV/DK-N/317.76 ろいん
16. 18.	Distance from Proposed Location to Nearest Property or Le 1535' Acres in Lease Distance from Proposed Location to Nearest Well, Drig, Cor 1011'	ase Line 17. Acres Assigned to Well Cha-NE/158.62 MV/DK-N/317.76 ろいんし mpl, or Applied for on this Lease
16. 18.	Distance from Proposed Location to Nearest Property or Lea 1535' Acres in Lease Distance from Proposed Location to Nearest Well, Drig, Cor 1011' Proposed Depth	ase Line 17. Acres Assigned to Well Cha-NE/158.62 MV/DK-N/317.76 ろいんし mpl, or Applied for on this Lease 20. Rotary or Cable Tools
16. 18.	Distance from Proposed Location to Nearest Property or Lea 1535' Acres in Lease Distance from Proposed Location to Nearest Well, Drig, Cor 1011' Proposed Depth 7115'	ase Line 17. Acres Assigned to Well Cha-NE/158.62 MV/DK-N/317.76 ろいんし mpl, or Applied for on this Lease 20. Rotary or Cable Tools Rotary
16. 18. 19.	Distance from Proposed Location to Nearest Property or Lea 1535' Acres in Lease Distance from Proposed Location to Nearest Well, Drig, Cor 1011' Proposed Depth 7115' Elevations (DF, FT, GR, Etc.) This action is subjection	ase Line 17. Acres Assigned to Well Cha-NE/158.62 MV/DK-N/317.76 3(7.66) mpl, or Applied for on this Lease 20. Rotary or Cable Tools Rotary
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18. 19. 21.	Distance from Proposed Location to Nearest Property or Lease Distance from Proposed Location to Nearest Well, Drlg, Cor 1011' Proposed Depth 7115' Elevations (DF, FT, GR, Etc.) This action is subject procedural review procedural review pand appeal pursuary	ase Line 17. Acres Assigned to Well Cha-NE/158.62 MV/DK-N/317.76 3.17.66 mpl, or Applied for on this Lease 20. Rotary or Cable Tools Rotary set to technical and pursuant to 43 CFR 3185.3
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16. 18. 19.	Distance from Proposed Location to Nearest Property or Lea 1535' Acres in Lease Distance from Proposed Location to Nearest Well, Drig, Cor 1011' Proposed Depth 7115' Elevations (DF, FT, GR, Etc.) This action is subject procedural review procedural review pand appeal pursuar Proposed Casing and Cementing Program	ase Line 17. Acres Assigned to Well Cha-NE/158.62 MV/DK-N/317.76 317.66 mpl, or Applied for on this Lease 20. Rotary or Cable Tools Rotary 22. Approx. Date Work will Start pursuant to 43 CFR 3185.3
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16. 18. 19. 21.	Distance from Proposed Location to Nearest Property or Lea 1535' Acres in Lease Distance from Proposed Location to Nearest Well, Drig, Cor 1011' Proposed Depth 7115' Elevations (DF, FT, GR, Etc.) This action is subject procedural review procedural review pand appeal pursuar Proposed Casing and Cementing Program	ase Line 17. Acres Assigned to Well Cha-NE/158.62 MV/DK-N/317.76 3.7.66 mpl, or Applied for on this Lease 20. Rotary or Cable Tools Rotary ect to technical and pursuant to 43 CFR 3185.3 M to 43 CFR 3185.4. DIGILLAGO OF ROLL AND RELEASE SUBJECT TO COMPLIANCE WITH ATTACH "GENERAL REQUIREMENTS" //- 9-0/
16. 18. 19. 21. 23.	Distance from Proposed Location to Nearest Property or Lea 1535' Acres in Lease Distance from Proposed Location to Nearest Well, Drig, Con 1011' Proposed Depth 7115' Elevations (DF, FT, GR, Etc.) This action is subject procedural review procedural review pand appeal pursuar See Operations Plan attached Authorized by: Regulatory/Compliance Supervise	ase Line 17. Acres Assigned to Well Cha-NE/158.62 MV/DK-N/317.76 3.7.66 mpl, or Applied for on this Lease 20. Rotary or Cable Tools Rotary ect to technical and pursuant to 43 CFR 3185.3 M to 43 CFR 3185.4. DIGILLAGO OF ROLL AND RELEASE SUBJECT TO COMPLIANCE WITH ATTACH "GENERAL REQUIREMENTS" //- 9-0/

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 1625 N. French Dr., Hobbe, N.M. 88240

State of New Mexico Energy, Minerals & Natural Resources Department

Form C-102 Revised August 15, 2000

DISTRICT II 811 South First, Artesia, N.M. 88210

DISTRICT III 1000 Rio Brazos Rd., Aziec, N.M. 87410

OIL CONSERVATION DIVISION 2040 South Pacheco

Santa Fe, NM 87505

Submit to Appropriate District Office State Lease — 4 Copies Fee Lease — 3 Copies

☐ AMENDED REPORT

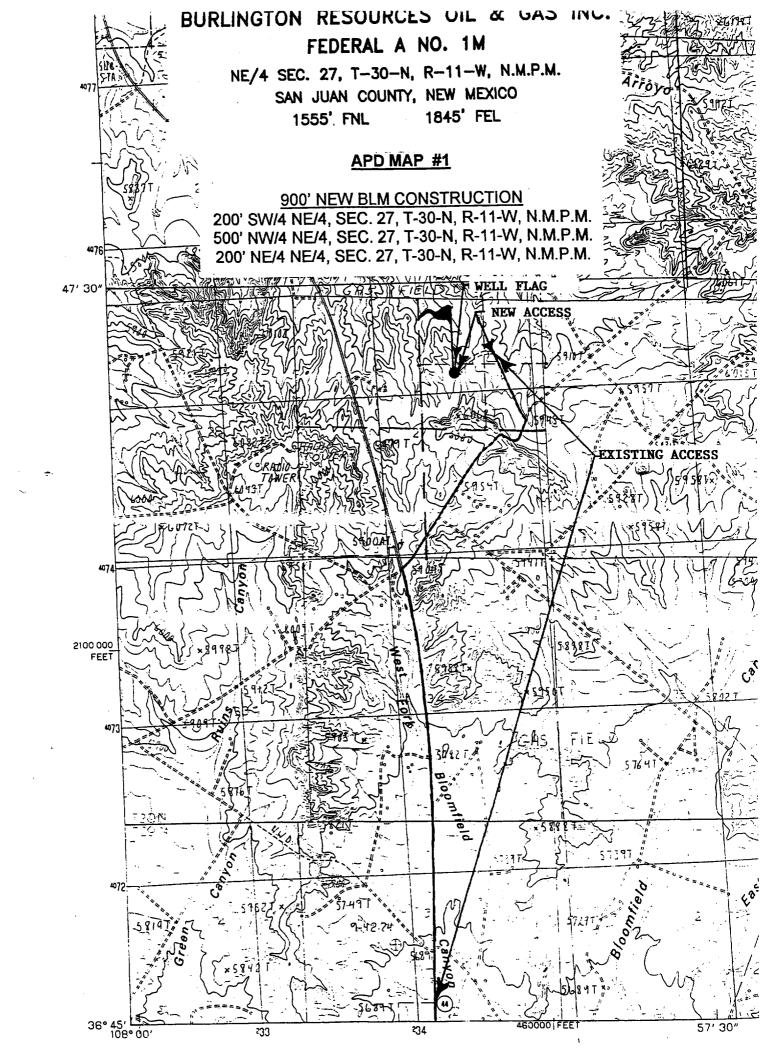
DISTRICT IV 2040 South Pacheco, Santa Fe, NM 87505

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30-045- 30910 82319/72						2319/71599 Otero Chacra/Blanco Mesaverd						Well Number		
7005					*Property Name FEDERAL A					1M				
OGRID No.					*Operator Name					* Elevation				
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UNITED STATES

DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

Sundry Notices and Reports on Wells	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·
	5.	Lease Number
1. Type of Well	6.	If Indian, All. or
GAS		Tribe Name
	7.	Unit Agreement Name
2. Name of Operator		
BURLINGTON RESOURCES OIL & GAS COMPANY	8.	Well Name & Number
3. Address & Phone No. of Operator	0.	Federal A #1M
PO Box 4289, Farmington, NM 87499 (505) 326-9700	9.	API Well No. 30-045- 309/0
4. Location of Well, Footage, Sec., T, R, M 1555'FNL, 1845'FEL, Sec.27, T-30-N, R-11-W, NMPM	10.	Field and Pool Otero Chacra/Blanco MV
	11.	Basin Dakota County and State San Juan Co, NM
		D3.003
12. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, R Type of Submission Type of Actio	BPORT, OTHER n	DATA
y Notice of Intent Abandonment	Change of Pla	ans
Recompletion	New Construc	tion
Subsequent Report Plugging Back	Non-Routine : Water Shut o	Fracturing
Casing Repair Final Abandonment X Other -		
13. Describe Proposed or Completed Operations		
The location of the subject well has been moved fro is the revised C-102 plat, cut & fill diagram, a	m 1535'FNL, nd topo map.	1880'FEL. Attached
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Fig. 111/1 .		
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	and the state of	
	La Maria Cara Cara Cara Cara Cara Cara Cara	
14. I hereby certify that the foregoing is true and con	rect.	
Signed Signed Title Regulatory S	Supervisor Da	ate 3/22/02 TLW
(This space for Federal or State Office use) APPROVED BY David J Manking Title	Date	JUN 17
CONDITION OF APPROVAL, if any will		
Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make United States any false, fictitious or fraudulent statements or representations as to any matter.	to any department or er within its jurisd	agency of the liction.



OPERATIONS PLAN

Well Name: Federal A #1M

Location: 1535'FNL, 1880'FEL, Sec 27, T-30-N, R-11-W

San Juan County, NM

Latitude 36^o 47.2, Longitude 107^o 58.5

Formation: Otero Chacra/Blanco Mesaverde/Basin Dakota

Elevation: 5951'GL

Formation Tops:	Top	Bottom	Contents		
Surface	San Jose	998'			
Ojo Alamo	998'	1093 ′	aquifer		
Kirtland	1093 ′	1777 '	gas		
Fruitland	1777'	2334'	gas		
Pictured Cliffs	2334'	2480'	gas		
Lewis	2480'	3068'	gas		
Intermediate TD	2580'				
Mesa Verde	3068 ′	3339 '	gas		
Chacra	3339 ′	3920 '	gas		
Massive Cliff House	3920'	4045'	gas		
Menefee	4045'	4639'	gas		
Massive Point Lookout	4639'	5011'	gas		
Mancos	5011 ′	58 88′	gas		
Gallup	5888 '	6627 ′	gas		
Greenhorn	6627'	6683'	gas		
Graneros	6683'	6747'	gas		
Dakota	6747 '		gas		
TD	7115'				

Logging Program:

Cased hole - CBL-CCL-GR - TD to surface

Open hole - Platform Express: GR/AIT from TD to 3050',

Rhob/Neutron from TD to minimum ops depth

Mudlog - 6527' to TD

Cores - none

Mud Program:

Inter	rval	Туре	Weight	Vis.	Fluid Loss
0-	200'	Spud	8.4-9.0	40-50	no control
200-	2580'	LSND	8.4-9.0	30-60	no control
2580-	67301	Air/N2	n/a	n/a	n/a
6730-	7115′	LSND	8.4-9.0	30-60	no control
	0- 200- 2580-	<u>Interval</u> 0- 200' 200- 2580' 2580- 6730' 6730- 7115'	0- 200' Spud 200- 2580' LSND 2580- 6730' Air/N2	0- 200' Spud 8.4-9.0 200- 2580' LSND 8.4-9.0 2580- 6730' Air/N2 n/a	0- 200' Spud 8.4-9.0 40-50 200- 2580' LSND 8.4-9.0 30-60 2580- 6730' Air/N2 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	Csg.Size	Wt.	<u>Grade</u>
12 1/4"	0' - 200'	9 5/8"	32.3#	H-40
8 3/4"	0' - 2580'	7"	20.0#	J-55
6 1/4"	2480' - 7115'	4 1/2"	10.5#	J-55

Tubing Program:

0' - 7115' 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 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/256 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 (775 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 1677'. First stage: cement with 212 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: 195 sx 50/50 Class G/TXI lightweight w/2.5% sodium metasilicate, 2% calcium chloride, 10# gilsonite/sx and 1/2# celloflake/sx (775 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 1093'. Two turbolating centralizers at the base of the Ojo Alamo at 1093'. 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 462 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 (665
 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/185 sx 9.5 PPG Litecrete Blend w/0.11% dispersant, 0.5% fluid loss. Tail w/171 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 (713 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.