UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

1a.	Type of Work	5. Lease Number
	DRILL -	SF-078115
		Unit Reporting Number
1b.	Type of Well	6. If Indian, All. or Tribe
	GAS _	
2.	Operator	7. Unit Agreement Name
	BURLINGTON RESOURCES Oil & Gas Company	V. Cint Agrosmont Mamo
3.	Address & Phone No. of Operator	8. Farm or Lease Name
	PO Box 4289, Farmington, NM 87499	Grenier
		9. Well Number
	(505) 326-9700	# 6B
N.	Location of Well	10. Field, Pool, Wildcat
	1165'FSL, 665'FWL	Blanco Mesaverde
	7 4 1 1 260 50 000 7 1 1 1 1 1000 01 000	11, Sec., Twn, Rge, Mer. (NMPM)
	Latitude 36° 52.8'N, Longitude 108° 01.2'W	N Sec. 20, T-31-N, R-11- API# 30-045-
		30465
14.	Distance in Miles from Nearest Town	12. County 13. State
	6.2 miles from the inter. of Hwy 550 & Hwy 173	San Juan NM
15.	Distance from Proposed Location to Nearest Property or Lease L	ine
16.	665' Acres in Lease	17. Acres Assigned to Well
10.	Acres III Lease	320 W/2
18.	Distance from Proposed Location to Nearest Well, Drlg, Compl, o	r Applied for on this Lease
	868' This action is subject to technical and	OO Determine Oakle Teals
19.	Proposed Depth procedural review pursuant to 43 CFR 3166.3	20. Rotary or Cable Tools
	5241' and appeal pursuant to 43 CFR \$165.4.	Rotary
21.	Elevations (DF, FT, GR, Etc.)	22. Approx. Date Work will Start
	6039 <u>′</u> GR	HING ODEDATIONS MITUODITES AD
23.	Proposed Casing and Cementing Program SUE	<u>lling operations authorized ari</u> Diect to compliance with attaci
	See Operations Plan attached "G	ENERAL REQUIREMENTS"
		12 - 4
24.	Authorized by:	12-8-00
	Regulatory/Compliance Supervisor	Date
		1/12/21
PERM	APPROVAL DA	ATE 1/12/01

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.

.O. Box 1980, Hobbs, N.M. 88241-1980

State of New Mexico Energy. Minerals & Natural Resources Department

Form C-10∠ Revised February 21, 1994 Instructions on back Submit to Appropriate District Office

DISTRICT II P.O. Drawer DD, Artesia, N.M. 88211-0719

OIL CONSERVATION DIVISION CTC 14 2: 05 Fee Lease - 3 Copies

1000 Rio Brazos Rd., Aztec, N.M. 87410

DISTRICT III

P.O. Box 2088 Santa Fe, NM 87504—2088

AMENDED REPORT

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

WELL LOCAT	ION AND	ACREAGE	DEDICATION	PLAT

	VILLE EGG/THOT	³ Pool Name	
1 API Number	² Pool Code 72319	- Blanco Mesaverde	
30-045- 00465		David Meno	* Well Number
⁴ Property Code		Property Name	6B
· · ·		GRENIER	\
18530		Operator Name	Elevation
OGRID No.		•	6039'—
	BURLINGTO	N OIL AND GAS, INC.	6039
14538		<u> </u>	<u> </u>

¹⁰ Surface Location

						Suitace	Location		S - A August Line	County	ĺ
,		0 11	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	1	İ
- 1	UL or lot no.	Section	31_N	ستما		1165'	SOUTH	665'	WEST	SAN JUAN	j
- 1	M	20	31-N	11-14		1100	L	L			

11 Rottom Hole Location of Different From Surface

			¹¹ Botte	om Hole	Location I	f Different Fro		T = An I P	Ta .
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
¹² Dedicated Acres		13 J	loint or Infill	<u> </u>	¹⁴ Consolidation Co	de	¹⁵ Order No.	-	
W/320									
1		1						LIANT DEEN C	CALCALIDATE

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

16		1,,	OPERATOR CERTIFICATION hereby certify that the information contained herein is ue and complete to the best of my knowledge and belief
FD 3 1/2" BC	LOT 2	LOT 1	Signature Peggy Cole Printed Name Regulatory Supervisor Title 12-8-00
B.L.M. 1953	.сот з	LOT 4	Date 18 SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of the be
665'	LOT 6 FD 3 1/2" BC B.L.M. 1953	LOT 5	Signature add Sur of Professional Surveyor. 8894 Certificate Number

OPERATIONS PLAN

Well Name: Grenier #6B

Surface Location: 1165'FSL, 665'FWL, Section 20, T-31-N, R-11-W

San Juan County, New Mexico

Latitude 36° 52.8'N, Longitude 108° 01.2'W

Formation: Blanco Mesaverde

Elevation: 6039'GR

Formation Tops:	Top	Bottom	<u>Contents</u>
Surface Ojo Alamo Kirtland Fruitland Pictured Cliffs Lewis Intermediate TD Mesa Verde Chacra Massive Cliff House Menefee Point Lookout	San Jose 925' 1001' 1923' 2582' 2722' 2972' 3291' 3634' 4176' 4369' 4841'	925' 1001' 1923' 2582' 2722' 3291' 3634' 4176' 4369' 4841'	aquifer aquifer gas gas gas gas gas gas gas gas gas
Total Depth	5241'_		•

Logging Program:

Cased hole logging - Gamma Ray, Cement bond from surface to TD Open hole logging - none
Mud Logs/Coring/DST - none

Mud Program:

Interval- MD	<u>Type</u>	Weight	<u>Vis.</u>	<u>Fluid Loss</u>
0- 200'	Spud	8.4 - 9.0	40-50	no control
200- 2972 '	LSND	8.4-9.0	30-60	no control
2972- 5241'	Air/Mist	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):

	Measured			0 1.
Hole S	ize Depth	Csg Size	Weight	<u>Grade</u>
12 1/4		9 5/8"	32.3#	H - 40
8 3/4	" 0' - 2972'	7 "	20.0#	J-55
6 1/4	" 2872' - 5241'/	4 1/2"	10.5#	J - 55

<u>Tubing Program:</u> 0' -5241' 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.

BOP Specifications, Wellhead and Tests (cont'd):

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# flocele/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/302 sx 50/50 Class "G"/Trinity Light with 2.5% sodium metasilicate, 2% calcium chloride, 10 pps Gilsonite, 0.5 pps Flocele. Tail with 90 sx Class "G" 50/50 poz w/2% gel, 2% calcium chloride, 5 pps Gilsonite, 0.1% antifoam and 0.25 pps Flocele (894 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 1823'. First stage: cement w/269 sx 50/50 Class "G" poz w/2% gel, 2% calcium chloride, 5 pps Gilsonite, 0.1% antifoam and 0.25 pps Flocele. Second stage: w/212 sx 50/50 Class "G"/Trinity Light with 2.5% sodium metasilicate, 2% calcium chloride, 10 pps Gilsonite, 0.5 pps Flocele (894 cu.ft. of slurry, 100% excess to circulate to surface).

Operations Plan - Grenier #6B

Page Three

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 1001'. Two turbolating centralizers at the base of the Ojo Alamo at 1001'. 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 255 sx Class "G" 50/50 poz w/4.5% gel, 0.25 pps Flocele, 5 pps Gilsonite, 0.25% fluid loss, 0.1% retardant (365 cu.ft., 50% excess to circulate liner). 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 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.
- 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 150 psi

Pictured Cliffs Mesa Verde

260 psi 375 psi

- 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 west half of Section 20 is dedicated to the Mesa Verde.
- This gas is dedicated.

Driftling Engineer) Date

