

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

RECEIVED  
203 JAN 30 PM 2:57  
070 Farmington, NM

1a. Type of Work DRILL	5. Lease Number NMSF - 078215-A Unit Reporting Number	
1b. Type of Well GAS	6. If Indian, All. or Tribe	
2. Operator <b>BURLINGTON</b> RESOURCES Oil & Gas Company	7. Unit Agreement Name	
3. Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499  (505) 326-9700	8. Farm or Lease Name Vanderslice 9. Well Number 101S	
4. Location of Well 1225' FNL, 895' FWL  Latitude 36° 58.4598'N, Longitude 107° 55.7363'W	10. Field, Pool, Wildcat Basin Fruitland Coal 11. Sec., Twn, Rge, Mer. (NMPM) Sec.19, T32N, R10W API # 30-045- <b>31990</b>	
14. Distance in Miles from Nearest Town 15.6 miles to Aztec, NM	12. County San Juan	13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 895'		
16. Acres in Lease	17. Acres Assigned to Well 319.97 W/2	
18. Distance from Proposed Location to Nearest Well, Drlg, Compl, or Applied for on this Lease 21'		
19. Proposed Depth 2967'	20. Rotary or Cable Tools Rotary	
21. Elevations (DF, FT, GR, Etc.) 6135' GR	22. Approx. Date Work will Start	
23. Proposed Casing and Cementing Program See Operations Plan attached		
24. Authorized by: <u><i>Joni Clark</i></u> Regulatory/Compliance Specialist	<u>10-17-03.</u> Date	

PERMIT NO. \_\_\_\_\_

APPROVAL DATE \_\_\_\_\_

APPROVED BY *David J. Markiewicz*

TITLE \_\_\_\_\_

DATE JAN - 9 2004

Archaeological Report attached

Threatened and Endangered Species Report attached

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.

DRILLING OPERATIONS AUTHORIZED AND  
SUBJECT TO COMPLIANCE WITH ATTACHED  
"GENERAL REQUIREMENTS".

NMOCDD

This action is subject to technical and  
procedural review pursuant to 43 CFR 3165.3  
and appeal pursuant to 43 CFR 3165.4

DISTRICT I  
1625 N. Franch Dr., Hobbs, 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., Aztec, N.M. 87410

DISTRICT IV  
2040 South Pacheco, Santa Fe, NM 87505

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

*API Number 30-045- <b>31990</b>	*Pool Code 71629	*Pool Name Basin Fruitland Coal
*Property Code 18633	*Property Name VANDERSLICE	*Well Number 101S
*OGRID No. 14538	*Operator Name BURLINGTON RESOURCES OIL & GAS, INC.	*Elevation 6135'

<sup>10</sup> Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	19	32-N	10-W		1225'	NORTH	895'	WEST	SAN JUAN

<sup>11</sup> Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
*Dedicated Acres W/319.97			*Joint or Infill		*Consolidation Code		*Order No.		

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

<sup>16</sup> CALC'D CORNER S00-00-18W 33' FROM WC FD 3 1/4" B.L.M. BC 1953 LOT 7 S 00-04-50 W 2619.79' (M) FD 3 1/4" B.L.M. BC 1953 USA SF-078215-A	N 89-49-28 E 2641.51' (M) LOT 6	FD 3 1/4" B.L.M. BC 1969 LOT 5	
	LAT. 36°58.4598' N (NAD 27) LONG. 107°55.7363' W LOT 8	LOT 9	<sup>17</sup> OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief  <i>Joni Clark</i> Signature Joni Clark Printed Name Regulatory Specialist Title 10-17-03 Date  <sup>18</sup> 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 my belief.  OCT 08 2002 Date of Survey NEW MEXICO Signature and Seal of Professional Surveyor: 14827 REGISTERED PROFESSIONAL SURVEYOR Certificate Number
	LOT 12	LOT 11	
	LOT 13	LOT 14	
LOT 15			

## OPERATIONS PLAN

**Well Name:** Vancerslice #101S  
**Location:** 1225' FNL, 895' FWL Section 19, T-32-N, R-10-W  
Latitude 36° 58.4598'N, Longitude 107° 55.7363'W  
San Juan County, NM  
**Formation:** Basin Fruitland Coal  
**Elevation:** 6135' GR

Formation:	Top	Bottom	Contents
Surface	San Jose	1102'	
Ojo Alamo	1102'	1187'	aquifer
Kirtland	1187'	2492'	
Fruitland	2492'	2542'	
<b>Intermediate TD</b>	<b>2492'</b>		
Fruitland Coal	2542'	2882'	gas
B/Basal Coal	2882'	2887'	gas
Pictured Cliffs	2887'		
<b>Total Depth</b>	<b>2967'</b>		

**Logging Program:** none  
**Mudlog:** from 7" to 2967'  
**Coring Program:** none

**Mud Program:**

Interval	Type	Weight	Vis.	Fluid Loss
0-120'	Spud	8.4-9.0	40-50	no control
120-2492'	Non-dispersed	8.4-9.0	30-60	no control
2492-2967'	Air/Mist			

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

Hole Size	Depth Interval	Csg. Size	Wt.	Grade
12 1/4"	0' - 120'	9 5/8"	32.3#	H-40
8 3/4"	0' - 2492'	7"	20.0#	J-55
6 1/4"	2492' - 2967'	open hole		

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

Hole Size	Depth Interval	Csg. Size	Wt.	Grade
12 1/4"	0' - 120'	9 5/8"	32.3#	H-40
8 3/4"	0' - 2492'	7"	20.0#	J-55
6 1/4"	2452' - 2967'	5 1/2"	15.5#	J-55

**Tubing Program:**

0' - 2967'	2 3/8"	4.7#	J-55
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**Float Equipment:** 9 5/8" surface casing - saw tooth guide shoe. Centralizers will be run in accordance with Onshore Order #2.

7" intermediate casing - guide shoe and self-fill float collar. Standard centralizers run every other joint above shoe. Two turbolizing type centralizers - one below and one into the base of the Ojo Alamo @ 1187'. Standard centralizers thereafter every fourth joint up to the base of the surface pipe.

**Wellhead Equipment:** 9 5/8" x 7" x 2 3/8" x 11" 2000 psi xmas tree assembly.

**Cementing:**

9 5/8" surface casing - cement with 23 sx Type I, II cement w/20% flyash, mixed at 14.5 ppg, 1.61 cu.ft. per sack yield (37 cu.ft. of slurry, bring cement to surface) or equivalent. Wait on cement for 24 hours of pre-set holes or 8 hrs for conventionally set holes before pressure testing or drilling out from under surface. Test BOP and casing to 600 psi for 30 minutes

7" intermediate casing - lead w/205 sacks Premium Lite with 3% calcium chloride, 5 pps LCM-1, and 1/4#/sack flocele, 0.4% FL-52, & 0.4% SMS. Tail with 90 sacks Type III cmt with 1% calcium chloride, 1/4#/sack flocele and 0.2% FL-52 (562 cu.ft., 50% excess to circulate to surface).

5 1/2" liner - will not be cemented if run.

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

**BOP and tests:**

Surface to intermediate TD - 11" 2000 psi (minimum) double gate BOP stack (Reference Figure #1). Prior to drilling out surface casing, test rams to 600#/30 min.

Intermediate TD to Total Depth - 7 1/6" 2000 psi (minimum) double gate BOP stack (Reference Figure #2). Prior to drilling out intermediate casing, test blind rams and casing to 1500 psi for 30 minutes; all pipe rams and casing to 1500 psi for 30 minutes each.

From surface to TD - choke manifold (Reference Figure #3).

Pipe rams will be actuated at least once each day and blind rams actuated once each trip to test proper functioning. An upper kelly cock valve with handle and drill string safety valves to fit each drill string will be maintained and available on the rig floor.

**Additional information:**

- \* The Fruitland Coal formation will be completed.
- \* Anticipated pore pressure for the Fruitland is less than 500 psi.
- \* This gas is dedicated.
- \* The west half of Section 19 is dedicated to the Fruitland Coal.

Date: 10-22-03

Drilling Engineer:

Jennifer McCarthy