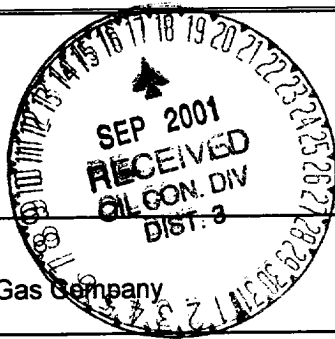


UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work DRILL		5. Lease Number SF-078215-A Unit Reporting Number
1b. Type of Well GAS		6. If Indian, All. or Tribe
2. Operator BURLINGTON 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 #1C
4. Location of Well 910' FSL, 920' FWL Latitude 36° 58.0, Longitude 107° 55.7	10. Field, Pool, Wildcat Blanco MV/Basin DK 11. Sec., Twn, Rge, Mer. (NMPM) M Sec. 19, T-32-N, R-10-W API # 30-045-30495	
14. Distance in Miles from Nearest Town 12.6 miles to inter of Hwy 550 & Hwy 173	12. County San Juan	13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 910'	17. Acres Assigned to Well MV/DK: W/319.97	
16. Acres in Lease		
18. Distance from Proposed Location to Nearest Well, Drig, Compl, or Applied for on this Lease 828'		
19. Proposed Depth 7760'	20. Rotary or Cable Tools Rotary	
21. Elevations (DF, FT, GR, Etc.) 6250' GR		22. Approx. Date Work will Start
23. Proposed Casing and Cementing Program See Operations Plan attached		
24. Authorized by: <u><i>Peggy Calk</i></u> Regulatory/Compliance Supervisor Date <u>10-20-00</u>		

PERMIT NO.

APPROVAL DATE

9/13/01

APPROVED BY

TITLE

David J. Mankie AFM (Minerals)

DATE 9/13/01

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.

Note: Well name originally was Vanderslice #1M

DISTRICT I
P.O. Box 1980, Hobbs, N.M. 88241-1980

State of New Mexico
Energy, Minerals & Natural Resources Department

Form C-102
Revised February 21, 1994
Instructions on back

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

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

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

OIL CONSERVATION DIVISION

P.O. Box 2088
Santa Fe, NM 87504-2088

☐ AMENDED REPORT

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-045- 30495	² Pool Code 72319/71599	³ Pool Name Blanco Mesaverde/Basin Dakota
⁴ Property Code 18633	⁵ Property Name VANDERSLICE	⁶ Well Number 1C
⁷ GRID No. 14538	⁸ Operator Name BURLINGTON RESOURCES OIL & GAS INC.	⁹ Elevation 6250'

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	19	32-N	10-W		910	SOUTH	920	WEST	SAN JUAN

¹¹ 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
¹² Dedicated Acres MV/DK: W/319.97			¹³ Joint or Infill		¹⁴ Consolidation Code		¹⁵ 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

¹⁶ USA SF-078215-A LOT 7 LOT 6 LOT 5				¹⁷ OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief Signature <u>Peggy Cole</u> Printed Name <u>Peggy Cole</u> Title <u>Regulatory Supervisor</u> Date <u>10-20-00</u>	
LOT 8 LOT 9 FD 3 1/2" BLM 1953 B.C.				Reissued to show revised location & well number.	
LOT 12 LOT 11 USA SF-078215-A				SEP 2001 RECEIVED OIL CON. DIV. DIST. 3	
LOT 13 LOT 14 LOT 15 FD 3 1/2" BLM 1969 B.C.				SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me under my supervision and that the same is true and correct to the best of my knowledge and belief. Date of Survey <u>10-20-00</u> Signature and Seal of Professional Surveyor <u>[Signature]</u> Certificate Number <u>8894</u>	

BURLINGTON RESOURCES OIL & GAS INC.

VANDERSLICE #1C

SW/4 SEC.19, T-32-N, R-10-W, N.M.P.M.

SAN JUAN COUNTY, NEW MEXICO

910' FSL

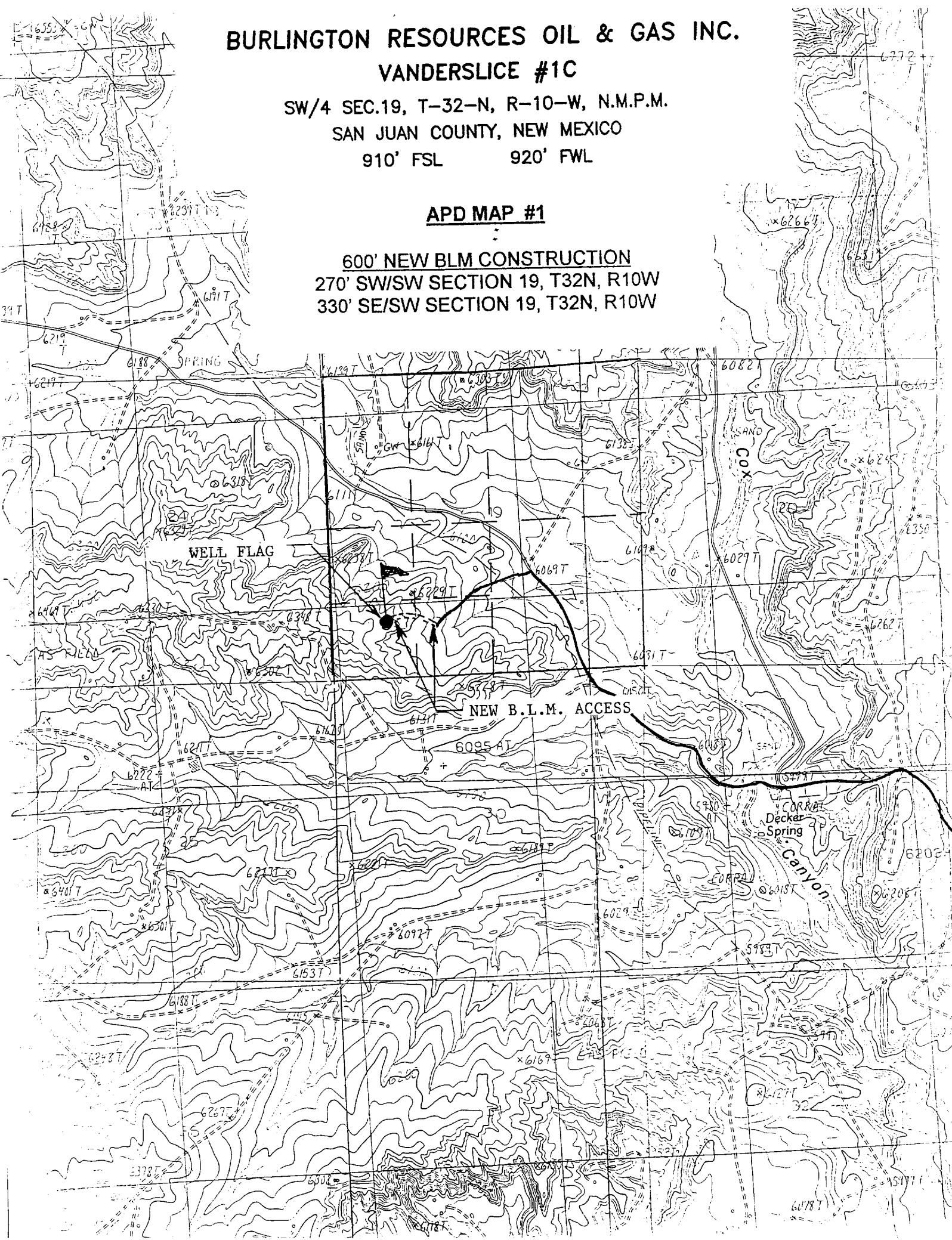
920' FWL

APD MAP #1

600' NEW BLM CONSTRUCTION

270' SW/SW SECTION 19, T32N, R10W

330' SE/SW SECTION 19, T32N, R10W



OPERATIONS PLAN

Well Name: Vanderslice #1C
Location: 910' FSL, 920' FWL, Sec 19, T-32-N, R-10-W
San Juan County, NM
Latitude 36° 58.0, Longitude 107° 55.7
Formation: Blanco Mesa Verde/Basin Dakota
Elevation: 6250' GL

<u>Formation Tops:</u>	<u>Top</u>	<u>Bottom</u>	<u>Contents</u>
Surface	San Jose	1232'	
Ojo Alamo	1232'	1342'	aquifer
Kirtland	1342'	2442'	gas
Fruitland	2442'	3032'	gas
Pictured Cliffs	3032'	3123'	gas
Lewis	3123'	3727'	gas
Intermediate TD	3223'		
Mesa Verde	3727'	4192'	gas
Chacra	4192'	4882'	gas
Massive Cliff House	4882'	4952'	gas
Menefee	4952'	5272'	gas
Massive Point Lookout	5272'	5684'	gas
Mancos	5684'	6652'	gas
Gallup	6652'	7357'	gas
Greenhorn	7357'	7417'	gas
Graneros	7417'	7498'	gas
Dakota	7498'		gas
TD	7760'		

Logging Program:

Open hole - DIL/GR, Density Neutron Prosimity, Bulk
Density/Correction, Microlog, CMR - TD to surface.
Cased hole - GR/CBL - TD to surface
Cores - none

Mud Program:

<u>Interval</u>	<u>Type</u>	<u>Weight</u>	<u>Vis.</u>	<u>Fluid Loss</u>
0- 200'	Spud	8.4-9.0	40-50	no control
200- 3223'	LSND	8.4-9.0	30-60	no control
3223- 7760'	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):

<u>Hole Size</u>	<u>Depth Interval</u>	<u>Csg. Size</u>	<u>Wt.</u>	<u>Grade</u>
12 1/4"	0' - 200'	9 5/8"	32.3#	WC-50
8 3/4"	0' - 3223'	7"	20.0#	J-55
6 1/4"	3223' - 7760'	4 1/2"	10.5#	K-55

Tubing Program:

0' - 7760' 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# 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/331 sx 50/50 Class G/TXI lightweight w/2.5% sodium metasilicate, 2% calcium chloride, 10# gilsonite/sx and 1/2# flocele/sx. Tail w/90 sx 50/50 Class "G" Poz w/2% calcium chloride, 2% gel, 1/4 pps flocele, 5 pps gilsonite (970 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 2342'. First stage: cement with 207 sx 50/50 Class "G" Poz w/2% calcium chloride, 2% gel, 1/4 pps flocele, 5 pps gilsonite. Second stage: 273 sx 50/50 Class G/TXI lightweight w/2.5% sodium metasilicate, 2% calcium chloride, 10# gilsonite/sx and 1/2# flocele/sx (970 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 1342'. Two turbolating centralizers at the base of the Ojo Alamo at 1342'. 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 463 sx 50/50 Class "G" Poz with 5% gel, 0.25# flocele/sx, 5# gilsonite/sx, 0.1% retardant and 0.25% fluid loss additive (666 cu.ft.), 40% excess to cement 4 1/2" x 7" overlap). 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 float shoe on bottom with float collar spaced on top of shoe joint.

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.

Additional Information:

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

Fruitland Coal	300 psi
Pictured Cliffs	600 psi
Mesa Verde	700 psi
Dakota	2500 psi
- Sufficient LCM will be added to the mud system to maintain well control, if lost circulation is encountered.
- The west half of Section 19 is dedicated to the Mesaverde and Dakota in this well.
- This gas is dedicated.


Drilling Engineer

1/11/01
Date